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INTRODUCTION

This publication includes all of the Office of Scientific Research and Development reports which have had OSRD numbers assigned to them and which have been forwarded to the Office of Technical Services. It does not include any report having a military security classification, nor does it include reports prepared under OSRD sponsorship which have not had OSRD numbers assigned to them. It was not feasible to include the unnumbered reports due to bibliographic problems which would have delayed publication by several months. If it is possible to prepare a similar list for the unnumbered series at a later date, an effort will be made to do so.

For convenience, the publication is arranged in three parts:

- Part I A bibliography arranged by OSRD number with the correlated PB numbers. Immediately following the PB number is the volume and page reference in the "Bibliography of Scientific and Industrial Reports" where an abstract of the report may be found.
- Part II A cross reference list arranged in PB number order and giving the corresponding OSRD number.
- Part III An author and subject index to the OSRD reports listed in Part I. The entries refer to OSRD numbers.

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Burchard, John
Structural protection studies to Mar 15, 1941. Progress report No. A-3. Mar 1941.
22p MI \$1.00 Ph \$2.00.
- OSRD 10 PBL 23677 (2-301)
Smyth, H. D.
Construction of the NDRC experimental firing range at Princeton University. Progress report. Jun 1941.
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Karman, Theodore von
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- OSRD 14 PBL 33190 (3-283)
Karman, Theodore von
Superspeed wind tunnel. Progress report. Sep 1941.
11p diagrs. MI \$1.00 Ph \$1.00.
- OSRD 17 PBL 27275 (2-581)
Schrodt, John P., and others
Development of the perchloric acid battery with high flash currents at low temperatures. Progress report. Aug 1941.
61p graphs, photos. MI \$2.00 Ph \$5.00.
- OSRD 19 PBL 33189 (2-819)
Robertson, H. P.
The mechanics of armor perforation: I. Residual velocity. Summary report. Jul 1941.
36p graphs, tables. MI \$1.00 Ph \$3.00.
- OSRD 20 PBL 27422 (2-354)
Burchard, John
Structural protection studies to Jun 30, 1941. Progress report. Aug 1941.
5p MI \$1.00 Ph \$1.00.
- OSRD 31 PBL 39574 (3-502)
Beranek, Leo L., and others
Materials and techniques for sound control in airplanes. Excerpts from progress report of project I. Mar 1941.
153p photos, tables, drawings, graphs, diagrs. MI \$3.00 Ph \$10.00.
- OSRD 34 PBL 8333 (1-621)
Stevens, S. S.
The effects of noise and vibration on psychomotor efficiency. 1941.
18p MI \$.50 Ph \$2.00.
- OSRD 39 PBL 39580 (3-471)
Brown, Gordon S.
Behavior and design of servomechanisms. Nov 1940.
48p charts, tables, diagrs. MI \$1.00 Ph \$4.00.
- OSRD 42 PBL 34135 (2-825)
U. S. National Defense Research Committee
Progress report to services, #5c Section D-2, Fire control. Jan 1941.
2p MI \$1.00 Ph \$1.00.
- OSRD 45 PBL 8306 (1-603)
Conant, J. B., and Chadwell, Harris M.
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Reduction of range and height finder errors due to temperature stratification. Progress report. Aug 1941.
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U. S. National Defense Research Committee
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- OSRD 55 PBL 32599 (2-812)
Dunham, Theodore, Jr.
Report on production of roof prisms for the Army and Navy. The influence of optical glass quality and of methods of grinding, polishing and testing on the rate of production. Apr 1941.
13p MI \$1.00 Ph \$1.00.
- OSRD 60 PBL 8307 (1-801)
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- OSRD 61 PBL 28532 (2-218)
Molnar, Julius P., and Harrison, G. R.
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79p graphs, tables. MI \$2.00 Ph \$8.00.
- OSRD 62 PBL 39573 (3-400)
Evans, Robley D., and others
Development of an instrument capable of measuring the radon content of breath and room air samples. Nov 1941.
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- OSRD 64 PBL 32718 (3-125)
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Effect of mechanical stresses on high explosives. Progress report. Dec 1940.
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- OSRD 69 PBL 19784 (1-1510)
Kistiakowsky, G. B., and Wilson, E. B., Jr.
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- OSRD 71 PBL 31203 (2-554)
Richter, George A.
Wood cellulose nitrates for munitions. Final report, part I, Nov 1940. Jan 1941.
251p graphs, photos, tables. MI \$6.00 Ph \$17.00.
- OSRD 72 PBL 31205 (2-744)
Richter, George A.
Conversion of nitrocellulose to smokeless powder. Final report, part II, Dec 1940. Jan 1941.
97p graphs. MI \$2.00 Ph \$7.00.
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Conant, J. B., and others
Report on suggested method of producing oxygen on aircraft in flight. 1941.
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Adams, Roger, and Marvel, C. S.
Several organic compounds that may have value as lacrimators and/or as vesicants. Progress report. Mar 1941.
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Conant, J. B.
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- OSRD 95 PBL 9401 (1-802)
Sweeney, M. J.
Report on "Engine tests with chemical sources of oxygen." May 1941.
22p graphs. MI \$.50 Ph \$2.00.
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Pauling, Linus
A light-weight instrument for indicating the partial pressure of oxygen in cases. Final report, May 13, 1941. Jun 1941.
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- OSRD 106 PBL 23207 (2-72)
Buewell, A. M.
Removal of salts from sea water (MI-85). Final report, Jun 15, 1941. Jun 1941.
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Adams, Roger
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Leighton, Philip A.
The removal of ethylene imine. Progress report, Jun 27, 1941. Jun 1941.
8p graphs, table. MI \$1.00 Ph \$1.00.

- OSRD 173 PBL 1143 (1-371)
Fieser, Louis F.
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- OSRD 174 PBA 4356 (1-371)
Fieser, L. F.
Report on "Production of incendiaries from acetylene" Polymers (PYA and SDO) to September 15, 1941. 1941.
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- OSRD 178 PBL 23202 (2-136)
Little, Arthur D., Inc., Cambridge, Mass.
Use of substitute materials in the manufacture of cork plugs; Final report. Nov 1941.
20p diagrs. MI \$0.50 Ph \$2.00.
- OSRD 182 PBL 8309 (1-668)
McAdams, W. H.
Exhaust gas disposal. 1941.
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Chipman, John
Effect of alloying elements upon the physical and magnetic properties of Hadfield's steel for armor plate. Report to Nov 11, 1941. Dec 1941.
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- OSRD 213 PBL 32792 (2-583)
Bowman, H. L.
200-foot portable bridge. Mar 1941.
12p drawings. MI \$1.00 Ph \$1.00.
- OSRD 214 PBL 32793 (2-801)
Bowman, H. L.
The Inglis bridge. Mar 1941.
10p tables. MI \$1.00 Ph \$1.00.
- OSRD 218 PBL 32800 (2-665)
Stryker, C. E.
Report of Aircraft Brake Survey Committee. Final report. Jun 1941.
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- OSRD 222 PBL 23759 (2-72)
Stephens, Roderick, Jr.
Model tests to investigate smooth water speeds of amphibious scout car. Interim report I, Aug 8, Sep 23, 1941. Sep 1941.
32p drawings, graphs, photos, tables.
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- OSRD 223 PBL 33380 (2-738)
Bowman, H. L., and others
Report of tests on man-ten steel bolts for H-10 portable bridge. Nov 1941.
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Bowman, H. L.
Portable overpass. Sep 1941.
8p drawings. MI \$0.50 Ph \$1.00.
- OSRD 225 PBL 20269 (2-188)
Carson, William F.
Trestle for 60-ton tanks. Report, Sep 21, 1941-Dec 31, 1942. Dec 1942.
41p drawings. MI \$0.50 Ph \$3.00.
- OSRD 226 PBL 32796 (2-744)
Roberts, Clifford
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33p photos. MI \$1.00 Ph \$3.00.
- OSRD 227 PBL 20270 (2-188)
Balke, Harry
Report on pontoon bridges and ferries for tanks. May 1941.
38p drawings. MI \$0.50 Ph \$3.00.
- OSRD 233 PBL 31049 (2-876)
Woods Hole Oceanographic Institution
Sound transmission in sea water; a preliminary report. Feb 1941.
85p tables, graphs, charts.
MI \$2.00 Ph \$6.00.
- OSRD 236 PBL 31108 (3-126)
Herring, Conyers
Theory of the pulsations of the gas bubble produced by an underwater explosion. Oct 1941.
84p curves. MI \$2.00 Ph \$6.00.
- OSRD 243 PBL 23772 (1-1601)
Ives, Herbert E., and others
Report of the Committee on Illumination, National Research Council. Oct 1941.
25p MI \$0.50 Ph \$2.00.
- OSRD 257 PBL 5253 (1-700)
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Comparison tests of hand incendiaries. Jan 1943.
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- OSRD 257 PBL 5988 (1-436)
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- OSRD 274 PBL 8334 (1-747)
Stevens, S. S., and others
I. The effects of noise on psychomotor efficiency; II. Noise reduction in aircraft as related to communicating, annoyance and aural injury. 1941.
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- OSRD 275 PBL 4637 (1-371)
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- OSRD 276 PBA 5562 (1-559)
Gelling, E. M. K., and McLean, Franklin C.
Report on "The toxicity of B-chloroethylthiocholine-chloride." 1941.
13p Ph \$1.00 MI \$0.50.
- OSRD 278 PBL 6538 (1-1142)
Sherwood, T. K., and Williams, G. C.
Evaporation of falling drops. Progress report, to Oct 17, 1941. Dec 1941.
48p tables, graphs, photos. MI \$0.50 Ph \$4.00.
- OSRD 281 PBL 19793 (2-40)
White, A. E., and Siebert, C. A.
Report on literature survey on the low-temperature properties of metals, to October 1941, (in 7 vols.) Dec 1941.
591p tables. MI \$6.00 Ph \$40.00.
- OSRD 285 PBA 31101 (2-790)
Kharash, M. S.
Kinetics of nitration: Preparation of trinitroethyl benzene. Progress report, Oct 1, 1941. Dec 1941.
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31101 285 12 \$1.00 \$1.00
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- OSRD 288 PBL 32794 (2-583)
Bowman, H. L.
Structures for 60-ton tank, Dec 1941.
3p drawings. MI \$1.00 Ph \$1.00.
- OSRD 289 PBL 32795 (2-801)
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Portable bridges designed by Bethlehem Steel Company. Dec 1941.
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- OSRD 291 PBL 8311 (1-604)
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Investigation of oxygen supply. 1941.
38p MI \$0.50 Ph \$3.00.
- OSRD 293 PBL 30740 (2-553)
Kistakowsky, G. B., and McEwan, W. S.
Determinations of the heats of combustion of explosives. Progress report. Dec 1941.
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- OSRD 302 PBA 5549 (1-409)
Hurd, Charles D.
Report on "Preparation of benzoyl isothiocyanate, bisisothiocyanomethyl ether, symtetrachlorodinitroethane and p-aminophenacyl chloride" to Dec 10, 1941. 1942.
15p Ph \$1.00 MI \$0.50.
- OSRD 304 PBA 16439 (1-1376)
Leighton, Philip A.
The removal of hexamethylene-diamine. Jan 1942.
6p tables. MI \$0.50 Ph \$1.00.
- OSRD 309 PBL 8335 (1-1365)
Beranek, L. L., and others
Materials for sound control in airplanes. Dec 1941.
114p photos, graph. MI \$1.50 Ph \$8.00.

- OSRD 311 PBL 23674 (2-354)
Demoster, A.J.
Rocket targets. Progress report, Nov. 1, 1941, Dec 1941.
13p MI \$1.50 Ph \$1.00
- OSRD 312 PBL 31095 (2-784)
Adams, Roger, and Marvel, C.S.
Preparation of trinitrobenzene from benzene via picryl chloride. Progress report, Dec 1941.
21p tables, graphs. MI \$1.00 Ph \$2.00.
- OSRD 314 PBA 58098 (5-474)
Gilman, Henry
Preparation of organometallic compounds as a source of toxic oxide smokes and flame thrower fuels. Jan 1942.
63p MI \$2.00 Ph \$5.00.
- OSRD 316 PBL 23687 (2-353)
Lakatos, Emory
Internal ballistics of powder driven rockets. Progress report, Dec 1941.
46p MI \$1.50 Ph \$4.00.
- OSRD 317 PBL 19658 (1-1393)
Wallace, R.L., Jr., and Ennis, Eugene
Acoustic direction finding for aircraft interception including information on microphone for operation in high wind velocities. Dec 1941.
55p drawings, graphs, photos. MI \$1.00 Ph \$4.00.
- OSRD 319 PBL 40560 (3-42)
Mehl, R.F.
Steel for gun tubes. Second progress report, Dec 15, 1941, Jan 1942.
79p photomicrographs, drawings.
MI \$2.00 Ph \$6.00.
- OSRD 320 PBL 23686 (2-355)
DuMond, Jesse W.M.
The mechanical efficiencies of rockets in empty field-free space. Progress report, Jan 1942.
46p graphs, tables, curves.
MI \$1.50 Ph \$4.00.
- OSRD 323 PBL 23684 (2-354)
Dempster, A. J.
A microphotographic study of flaws in ballistite powder. Progress report, Dec 1941.
26p photos. MI \$1.50 Ph \$2.00.
- OSRD 326 PBA 5551 (1-477)
Fuson, R. C., and Marvel, C. S.
Report on "The preparation of cacodyl and cacodyl chloride" to January 15, 1942. 1942.
37p Ph \$3.00 MI \$1.50.
- OSRD 327 PBA 5550 (1-477)
Fuson, R. C., and Marvel, C. S.
Report on "Attempted preparation of bis-(trichlorovinyl) sulfide by the reaction of sulfur monochloride and trichlorotethylene" to January 1, 1942. 1942.
9p Ph \$1.00 MI \$1.50.
- OSRD 328 PBL 50852 (4-291)
Allison, S. K., and others
The barotimer, a barometrically set time fuze. Progress report, Jan 1942.
26p drawings. MI \$1.00 Ph \$2.00.
- OSRD 332 PBA 5548 (1-479)
Kharasch, M. S.
Report on "The catalytic conversion of diphosgene into phosgene" to December 1, 1941. 1942.
21p illus. Ph \$2.00 MI \$1.50.
- OSRD 333 PBA 31097 (2-792)
Smith, L. I.
Reactions of xylene with aluminum chloride. Progress report, Jan 1942.
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- OSRD 334 PBA 31098 (2-941)
Hurd, Charles D.
Preparation of tetranitromethane. Progress report, Jan 1942.
9p MI \$1.00 Ph \$1.00.
- OSRD 335 PBL 23206 (1-1600)
Drinker, C. K., and others
The construction of mask L-12 for oxygen inhalation in military aviation: Final report, Jan 1942.
14p photos. MI \$1.50 Ph \$1.00.
- OSRD 341 PBL 23771 (2-155)
O'Brien, Brian
Preliminary report on the luminosity of airplane engine exhaust plumes and methods for reducing this luminosity. May 1941.
11p photos. MI \$1.50 Ph \$1.00.
- OSRD 342 PBL 50853 (4-581)
Schrodt, John P., and others
The performance of small dry batteries when subjected to low air temperatures and the effect of heating the batteries internally by alternating current supplied to the battery terminals. Progress report, Jan 1942.
28p graphs, tables. MI \$1.00 Ph \$2.00.
- OSRD 344 PBA 34115 (2-881)
U. S. National Defense Research Committee
A preliminary report on tests of emotional stability. Jan 1942.
23p MI \$1.00 Ph \$2.00.
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Dempster, A. J.
The trajectories of target rockets. Progress report, Jan 1942.
17p tables, curves. MI \$1.50 Ph \$2.00.
- OSRD 349 PBL 34116 (3-48)
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Photography of airplanes at long ranges. Progress report to the services No. 17: Sec. D-2, Fire control. Dec 1941.
14p MI \$1.00 Ph \$1.00.
- OSRD 353 PBL 32803 (2-617)
Molnar, Julius P.
Report on low reflection treatment of glass surfaces. Jan 1942.
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- OSRD 354 PBL 20266 (2-191)
Harrison, G. R., and Hornbeck, John A.
Report on an instrument for the detection of radon. Jan 1942.
34p diagrs. MI \$1.50 Ph \$3.00.
- OSRD 355 PBL 34805 (3-172)
Molnar, Julius P.
Helium purity indicator. Jan 1942.
23p chart, diagr., drawing, graph.
MI \$1.00 Ph \$2.00.
- OSRD 358 PBL 31191 (2-892)
Pekeris, C. L.
Propagation of sound in a medium of variable velocity. Sep 1941.
53p diagrs. MI \$2.00 Ph \$4.00.
- OSRD 360 PBL 20276 (2-122)
Von Karman, Theodore
On the propagation of plastic deformation in solids. Progress report, Jan 1942.
8p graph. MI \$1.50 Ph \$1.00.
- OSRD 368 PBL 12148 (1-677)
Welth, A. J., and Turkington, V. H.
Protective coatings for naval aircraft. Feb 1942.
48p illus. MI \$1.50 Ph \$4.00.
- OSRD 368A PBA 12150 (1-1046)
Mease, R. T.
Development of substitutes for silk in powder bags, as of December 31, 1941, Feb 1942.
6p MI \$1.50 Ph \$1.00.
- OSRD 369 PBL 27307 (2-825)
Bethe, H. A.
The specific heat of air up to 25,000° C. Feb 1942.
33p tables. MI \$1.00 Ph \$3.00.
- OSRD 370 PBL 39700 (3-396)
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The extrapolation, interpolation and smoothing of stationary time series, with engineering applications. Feb 1942.
176p table. MI \$4.00 Ph \$12.00.
- OSRD 373 PBL 31204 (2-859)
Goranson, R. W.
Methods for detecting defects in the base of a shell forging. Progress report, Jan 1942.
25p diagrs., tables, photo.
MI \$1.00 Ph \$2.00.
- OSRD 375 PBL 8079 (1-584)
Brown, Weldon G.
Report on "Mechanical formation of fogs." 1942.
25p illus. MI \$1.50 Ph \$2.00.
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Progress report to the services No. 21: Section D-2, Fire Control. Feb 1942.
2p MI \$1.00 Ph \$1.00.
- OSRD 379 PBA 5552 (1-478)
Hellerman, Leslie
Report on "The action of mustard gas upon urease and papain" to January 15, 1942. 1942.
23p MI \$1.50 Ph \$2.00.
- OSRD 380 PBL 40536 (3-341)
Duvet, Pol. E.
Preliminary experiments on the propagation of plastic deformation. Progress report, Feb 1942.
21p curves, diagr. MI \$1.00 Ph \$2.00.
Supplement to PB 20276.
- OSRD 382 PBL 5246 (1-441)
Russell, R. P.
Report on "The development of oil incendiary bombs." 1942.
66p illus. Ph \$5.00 MI \$1.00.

- OSRD 383 PBL 22916 (2-545)
Stevens, S. S., and others
Articulation testing methods, including wordlists for the testing of communication systems. Feb 1942.
55p curves, graphs, charts.
MI \$1.00 Ph \$4.00.
- OSRD 407 PBA 5555 (1-537)
Bartlett, Paul D.
Supplementary report on "Improved methods for the Manufacture of M-1 (Lewisite)" to February 12, 1942. 1942.
3p Ph \$1.00 MI \$5.00.
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Bartlett, Paul D.
Report on "The M-1 oxides (beta-chlorovinylarsine oxide). The preparation of slightly impure isomer I oxide and pure isomer II oxide," to February 10, 1942. 1942.
5p Ph \$1.00 MI \$5.00.
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Sweeney, W. J.
Report on "Engine tests with chemical sources of oxygen and with liquid oxygen," to December 23, 1941. 1942.
22p MI \$5.50 Ph \$2.00.
- OSRD 410 PBL 34111 (3-47)
U. S. National Defense Research Committee
Selection of stereoscopic range finder operators. Progress report to the services No. 22: Sect. D-2, Fire Control. n.d.
5p MI \$1.00 Ph \$1.00.
- OSRD 411 PBL 58240 (4-951)
Shannon, Claude E.
Theory and design of linear differential equation machines. Jan 1942.
90p diagrs. MI \$2.00 Ph \$6.00.
- OSRD 412 PBL 31099 (2-818)
MacDougall, D. P.
Increased visibility of A. A. shell bursts. Progress report. Feb 1942.
6p photo. MI \$1.00 Ph \$1.00.
- OSRD 413 PBL 12149 (1-677)
Welth, A. J., and Turkington, V. H.
Protective coatings for ship bottoms and naval aircraft. Feb 1942.
15p MI \$5.50 Ph \$1.00.
- OSRD 414 PBL 8078 (1-700)
Brown, George Granger, and others
Report on "The Formation of screening smokes," Jan 1942.
17p illus. MI \$5.50 Ph \$1.00.
- OSRD 415 PBL 23675 (2-237)
Fowler, W. A.
The design, development and testing of rocket targets. Progress report, Feb 1, 1942. Feb 1942.
48p drawings, graphs, photos, tables.
MI \$5.50 Ph \$4.00.
- OSRD 432 PBA 5241 (1-553)
Hottel, H. C., and Wilkes, Gordon B.
Wood flammability under various conditions of irradiation. 1942.
26p illus. Ph \$2.00 MI \$5.00.
- OSRD 435 PBL 40558 (3-549)
Hoover, C. R.
The development of flares suitable for underwater use. Final report. Feb 1942.
31p photos, diagrs, tables. MI \$1.00 Ph \$5.00.
- OSRD 436 PBL 43048 (4-1065)
Sherwood, T. K.
Report on screening smokes. Progress report Mar 1942.
21p photos, drawings, tables. MI \$1.00 Ph \$2.00.
- OSRD 437 PBL 15441 (1-1376)
Pierce, W. C., and others
The value of soda lime in gas absorbents. Mar 1942.
19p tables. MI \$5.50 Ph \$2.00.
- OSRD 439 PBL 8312 (1-604)
Gilliland, E. R.
Report on "Investigation of oxygen supply" to March 1, 1942. 1942.
39p MI \$5.50 Ph \$3.00.
- OSRD 445 PBL 27280 (2-609)
Sage, B. H., and Lacey, W. M.
Extrusion of ballistite tubing and rod. Progress report. Mar 1942.
74p curves, drawings, graphs, tables.
MI \$2.00 Ph \$5.00. (See also PB 27281 and 27282.)
- OSRD 448 PBL 39707 (3-159)
Dole, Malcolm, and Klotz, Irving M.
Electrical resistance and temperature of charcoals. Progress report. Dec 1941.
44p graphs. MI \$1.00 Ph \$3.00.
- OSRD 450 PBL 8321 (1-606)
Prentiss, S. S.
Report on tests on oxygen rectification equipment. 1942.
13p MI \$5.50 Ph \$1.00.
- OSRD 451 PBL 6579 (1-429)
Kistakowsky, G. B.
Report on "The study of the mechanism of the physiological action of Mustard by means of Radioactive Mustard" to March 6, 1942. 1942.
18p MI \$5.50 Ph \$2.00.
- OSRD 453 PBL 32797 (2-744)
Roberts, Clifford
OSRD contract Omsr-112 (tank turrets). Progress report to Mar 2, 1942. Mar 1942.
2p MI \$1.00 Ph \$1.00.
- OSRD 454 PBL 33985 (2-799)
Harris, Herbert, Jr.
The analysis and design of servomechanisms. Progress report to the service No. 23. n.d.
91p graphs, diagr. MI \$2.00 Ph \$7.00.
- OSRD 461 PBL 34804 (3-246)
Molnar, Julius P.
Radio telemetering of aircraft instruments. Mar 1942.
20p MI \$1.00 Ph \$2.00.
- OSRD 464 PBA 12055 (1-985)
Kistakowsky, George B.
Preparation of radioactive adamsite and mustard. Report to March 4, 1942. 1942.
5p MI \$5.50 Ph \$1.00.
- OSRD 465 PBL 32802 (2-807)
Bowman, H. L.
Report on tests on Douglas fir balk for pontoon bridges. n.d.
46p curves, tables, photos. MI \$1.00 Ph \$4.00.
- OSRD 466 PBL 27281 (2-606)
DuMond, Jesse W. H.
A vacuum press for the extrusion of solventless double base ballistite for use in rockets. Progress report. Mar 1942.
51p drawings, photos. MI \$2.00 Ph \$4.00.
See also PB 27280 and 27282.
- OSRD 468 PBL 8077 (1-797)
Hottel, H. C.
Report on "Production of smokes of controlled size by use of induction nozzles." Jan 1942.
29p illus. MI \$5.50 Ph \$2.00.
- OSRD 469 PBA 50801 (5-473)
Bartlett, Paul D.
Urea peroxide as a possible decontaminant for M-1 and H.S. Report to February 11, 1942. Mar 1942.
3p MI \$1.00 Ph \$1.00.
- OSRD 470 PBA 5547 (1-476)
Bartlett, Paul D.
Report on "The geometrical isomers of M-1 (Lewisite)" to March 3, 1942. 1942.
12p Ph \$1.00 MI \$5.00.
- OSRD 473 PBL 27282 (2-609)
Sage, B. H., and Lacey, W. M.
Extrusion of ballistite tube from solventless sheet stock. Progress report, Feb 23, 1942. Mar 1942.
32p drawings, graphs, tables, photos. MI \$1.00 Ph \$3.00.
- OSRD 479 PBL 15883 (1-1245)
Aborn, R. H., and Stitt, J. E.
Report on "Studies and investigations in connection with research needs in the field of welding ordnance steels." Jan 1942.
29p MI \$5.50 Ph \$2.00.
- OSRD 480 PBL 19817 (1-1576)
Chipman, John, and Kaufman, A. R.
Ballistic tests on some experimental non-magnetic steels for armor plate. Progress report, Mar 10, 1942. Mar 1942.
21p photos, tables. MI \$5.50 Ph \$2.00.
- OSRD 487 PBL 6704 (1-565)
Langmuir, Irving
Smoke generator. 1942.
5p illus. MI \$5.50 Ph \$1.00.
- OSRD 488 PBL 23780 (2-135)
Huber, Paul
Summary of noise investigation on M-3 light tank #609. Apr 1942.
41p drawings, graphs, photos. MI \$5.00 Ph \$3.00.
- OSRD 490 PBL 15882 (1-930)
Mehl, Robert F.
Steel for gun tubes; Report, Mar 15, 1942. Mar 1942.
48p photos, tables, graphs. MI \$5.00 Ph \$4.00.

- OSRD 491 PBL 8320 (1-538)
Glaque, M. F.
Report on cascade oxygen system. 1942.
57p MI \$1.00 Ph \$4.00.
- OSRD 493 PBM 6002 (1-430)
Northrop, John H.
Detection of HS, M-1, ED or PDA with trained dogs or rats. 1942.
12p Ph \$1.00 MI \$5.00.
- OSRD 495 PBL 40626 (3-482)
Seitz, Frederick, Jr., and others
The plastic properties of metals at high rates of strain. Progress report. Apr 1942.
32p photos, graphs, drawings.
MI \$1.00 Ph \$3.00.
- OSRD 497 PBL 19655 (1-1424)
Hoover, C. R.
Aerial photograph flash powders, composition and use: Final report, Feb 15, 1942.
Apr 1942.
76p graphs, tables. MI \$1.00 Ph \$6.00.
- OSRD 498 PBL 18481 (1-1177)
Goranson, Roy W., and others
The measurement of large transient stresses. Apr 1942.
36p curves, diags, drawings.
MI \$5.00 Ph \$3.00.
- OSRD 501 PBL 23576 (2-301)
Smythe, M. R.
A projector for rocket targets. Progress report, Feb 24, 1942. Mar 1942.
19p drawings, photos. MI \$5.00 Ph \$2.00.
- OSRD 504 PBA 6003 (1-479)
Kharasch, M. S.
The preparation of diphosgene. 1942.
20p illus. Ph \$2.00 MI \$5.00.
- OSRD 507 PBA 6006 (1-681)
Fuson, R. C., and Marvel, C. S.
Report on "Catalytic production of homologues of cyclohexyl and their derivatives," to March 27, 1942. 1942.
6p MI \$5.00 Ph \$1.00.
- OSRD 517 PBL 15856 (1-1428)
Bole, George A., and Orlowski, Howard J.
Acceptance test for firebrick: pouring box refractories. Final report, Mar 16, 1942.
Mar 1942.
51p diags., photos, tables.
MI \$1.00 Ph \$4.00.
- OSRD 519 PBL 15891 (1-968)
Karman, Theodor von
The model supersonic wind tunnel; progress report. Mar 1942.
57p photos, drawings. MI \$1.00 Ph \$4.00.
- OSRD 523 PBL 32190 (2-607)
Wilson, E. B., Jr., and Cole, R. H.
Measurement of underwater explosion pressures. Progress report. Apr 1942.
44p diags. MI \$1.00 Ph \$3.00.
- OSRD 534 PBA 6005 (1-477)
Fuson, R. C., and Marvel, C. S.
Attempted chloromethylation of HS. 1942.
5p Ph \$1.00 MI \$5.00.
- OSRD 537 PBL 8076 (1-629)
Olson, Axel R., and Gould, George D.
Report on "Use of aqueous solutions for producing screening fogs or smokes by pneumatic spray nozzels." 1942.
13p illus. MI \$5.00 Ph \$1.00.
- OSRD 538 PBL 30801 (2-786)
Whitmore, F. C.
Investigation of the melting point of RDX. Progress report. Apr 1942.
10p drawing. MI \$1.00 Ph \$1.00.
- OSRD 539 PBL 58096 (5-27)
National Defense Research Committee
Report on a design for an interval control. Apr 1942.
32p photos, drawings, tables.
MI \$1.00 Ph \$3.00.
- OSRD 545 PBL 32189 (2-825)
Bethe, H. A.
Report on the theory of shock waves for an arbitrary equation of state. May 1942.
86p curves. MI \$2.00 Ph \$6.00.
- OSRD 547 PBL 23693 (2-317)
Hirschfelder, J. O., and others
Thermochemistry and the equation of state of the propellant gases. Progress report. Apr 1942.
113p graphs. MI \$1.50 Ph \$8.00.
- OSRD 548 PBA 6004 (1-478)
Gillman, Henry
Organo-tin compounds. 1942.
28p Ph \$2.00 MI \$5.00.
- OSRD 549 PBL 31090 (2-616)
Neuman, John
Theory of detonation waves. Progress report. Apr 1, 1942. May 1942.
36p figures. MI \$1.00 Ph \$3.00.
- OSRD 558 PBL 27276 (2-582)
Schrodt, John P., and others
The National Bureau of Standards battery for low temperature operation. Progress report. May 1942.
28p graphs, photos. MI \$1.00 Ph \$2.00.
- OSRD 559 PBL 31202 (2-660)
MacDougall, D. P.
Increased visibility of A. A. shell bursts. Final report. May 1942.
13p photos, tables. MI \$1.00 Ph \$1.00.
- OSRD 560 PBL 30774 (2-785)
MacDougall, D. P.
Some properties of NENO and HMO as explosives. Progress report. May 1942.
8p tables. MI \$1.00 Ph \$1.00.
- OSRD 562 PBL 32803 (2-801)
Bowman, H. L.
Possible use as a railway bridge of the H-20 highway bridge. May 1942.
10p tables, drawings. MI \$1.00 Ph \$1.00.
- OSRD 568 PBL 27311 (2-608)
Roberts, Clifford
Contract ODMr-112 (Tank turrets). Progress report, May 1, 1942. Apr 1942.
2p MI \$1.00 Ph \$1.00.
- OSRD 570 PBL 40559 (3-400)
Northrop, John H.
Amplifier to replace galvanometer in potentiometric titration of small amounts of M-1, HS, ED or DM. Supplement to Progress report, Apr-13, 1942. May 1942.
3p diagr. MI \$1.00 Ph \$1.00.
- OSRD 574 PBL 8317 (1-538)
Diehl, Harvey
Report on "Development of oxygen carrying chemicals." 1942.
40p MI \$5.00 Ph \$3.00.
- OSRD 575 PBL 20165 (2-250)
Cawein, Madison
Developmental model of an interference generator for the 2 to 20 megacycle spectrum. Progress and final reports on project #58. Aug 1941-May 1942.
- | PB | OSRD | Microfilm | Photostat | Pt |
|-------|------|-----------|-----------|-------|
| 20165 | 575 | \$1.00 | \$5.00 | Final |
| 20172 | " | .50 | 2.00 | 1 |
| 20173 | " | .50 | 1.00 | 3 |
| 20170 | " | .50 | 1.00 | 4 |
| 20169 | " | .50 | 1.00 | 5 |
| 20171 | 575 | .50 | 1.00 | 6 |
- OSRD 577 PBL 23683 (2-300)
Sage, B. H., and Lacey, M. M.
Preliminary report on the use of ballistite turnings in primers. Progress report. May 1942.
16p drawings, graphs, tables.
MI \$5.00 Ph \$2.00.
- OSRD 578 PBL 36958 (3-49)
U. S. National Defense Research Committee
The precision, consistency, and accuracy of visual range observations. May 1942.
73p drawings, graphs, diags.
MI \$2.00 Ph \$5.00.
- OSRD 582 PBL 15886 (1-937)
Aborn, R. H., and others
Survey of literature and industrial practice in the welding of armor. Apr 1942.
45p diags, tables. MI \$5.00 Ph \$3.00.
- OSRD 585 PBL 23682 (2-299)
King, R. B., and others
The chemical warfare grenade. Progress report. May 1942.
26p diags, graphs, photos. MI \$5.00 Ph \$2.00.
- OSRD 587 PBL 4638 (1-371)
Fieser, Louis F.
Recommendation for the filling and firing of the 100-lb. oil incendiary bomb (M-47 and M-47A1). 1942.
37p illus. Ph \$3.00 MI \$5.00.
- OSRD 588 PBL 32182 (2-826)
Kirkwood, John G., and Bethe, Hans A.
The pressure wave produced by an underwater explosion: Part I. Progress report. May 1942.
76p curves. MI \$2.00 Ph \$6.00.
- OSRD 590 PBL 24898 (2-192)
Long, F. A.
An apparatus for the determination of particle size (OD-OV). Final report. May 1942.
18p curves, diags. MI \$5.00 Ph \$2.00.
- OSRD 592 PBL 34112 (3-47)
Flood, Merrill M., and Fry, T. C.
Selection of stereoscopic range finder operators. Report to the services No. 30: Sect. D-2, Fire control. May 1942.
7p MI \$1.00 Ph \$1.00.
See PB 34136 for final report.

- OSRD 605 PBL 23691 (2-296)
Burchard, J. E.
The new vertical firing chamber and concrete laboratory at Princeton University. Progress report. May 1942.
29p plans, photos. MI \$1.50 Ph \$2.00.
- OSRD 606 PBL 23680 (2-296)
Davis, Leverett, Jr., and Robinson, Charles F.
Controlled striking angle of rocket projectiles. Progress report. May 1942.
28p diagrs, photos, tables.
MI \$1.50 Ph \$2.00.
- OSRD 607 PBL 15003 (1-940)
Norton, F. H.
Development of a substitute for sillimanite in pouring rings used in special steel foundry practice; final report. May 1942.
30p graphs, diagrs. MI \$1.50 Ph \$2.00.
- OSRD 608 PBL 23781 (2-135)
Hayward, Frank W.
Sprocket noise investigation on M-3 light tank #6305 (Serial #909). May 1942.
24p photos. MI \$1.50 Ph \$2.00.
- OSRD 609 PBL 23782 (2-135)
Hayward, Frank W.
Approach noise tests on M3 light tank #6305 (Serial No. 909). May 1942.
29p graphs. MI \$1.50 Ph \$2.00.
- OSRD 610 PBL 23783 (2-135)
Hayward, Frank W.
Track noise and vibration tests on M3 light tank #6305 (Serial #909). May 1942.
18p MI \$1.50 Ph \$2.00.
- OSRD 611 PBL 23681 (2-354)
Clark, D. S.
Equipment and procedure for static firing tests. Progress report. Jun 1942.
34p photos, diagrs, curves, drawings, tables. MI \$1.50 Ph \$3.00.
- OSRD 612 PBL 30775 (2-746)
Western Cartridge Co., East Alton, Ill.
Engineering laboratory investigation of cyclonite processes. Final report, May 1942. Jun 1942.
106p photos, graphs. MI \$3.00 Ph \$8.00.
- OSRD 613 PBL 8313 (1-604)
Billiland, E. R.
Report on "Investigation of oxygen supply." 1942.
50p MI \$1.50 Ph \$4.00.
- OSRD 614 PBL 28530 (2-461)
Cloud, G. H., and others
Operation of Diesel engines on oxygen. Progress report, Dec 2, 1941-Apr 15, 1942. Jun 1942.
38p tables, graphs, diagrs.
MI \$1.00 Ph \$3.00.
- OSRD 615 PBL 23766 (2-106)
Hottel, H. C.
Studies on fuel projection from nozzles. Progress report. Apr 25, 1942, Jun 1942.
12p drawings, graphs, tables.
MI \$1.50 Ph \$1.00.
- OSRD 616 PBL 34126 (3-40)
U. S. National Defense Research Committee and Graham, Clarence H.
The relation of National Research Council neurotic inventory scores and intelligence. Report to the services No. 27: Sect. D-2, Fire Control. May 1942.
5p tables, graphs. MI \$1.00 Ph \$1.00.
- OSRD 622 PBL 34127 (2-891)
U. S. National Defense Research Committee
Relative position of reticle and target in the stereoscopic rangefinder. May 1942.
16p graphs, tables. MI \$1.00 Ph \$2.00.
- OSRD 623 PBL 23784 (5-890)
Hayward, Frank W.
Noise in the crew compartment of M-3 light tank No. 909. Apr 1942.
23p photos. MI \$1.50 Ph \$2.00.
- OSRD 624 PBL 50851 (4-451)
Rudmose, H. W., and others
Sound level measurements in U. S. military airplanes. May 1942.
93p graphs, tables. MI \$2.00 Ph \$7.00.
- OSRD 625 PBL 34129 (3-49)
U. S. National Defense Research Committee
Relation of accuracy and variability of stereoscopic anti-aircraft rangefinding operation to correct interocular setting of the instrument. Report to the services No. 28: Sect. D-2, Fire control. May 1942.
5p curves. MI \$1.00 Ph \$1.00.
- OSRD 631 PBL 63648 (5-214)
Whitmore, H. L., and Sweetman, L. R.
Method of investigating the deformation of deformable projectiles. Jun 1942.
7p graph, photo, drawing. MI \$1.00 Ph \$1.00.
- OSRD 637 PBL 32717 (3-119)
Hottel, H. C., and Garraway, G. H.
Joint report on status of NDRC projects on flame-throwers. Progress report. Jun 1942.
22p photos, drawings, graphs.
MI \$1.00 Ph \$2.00.
- OSRD 652 PBL 30776 (2-786)
Whitmore, F. C.
Preparation of HMX. Progress report. Jun 1942.
16p photomicrographs. MI \$1.00 Ph \$2.00.
- OSRD 654 PBA 30777 (2-787)
Whitmore, F. C.
The potentiometric titration of filtrates from the Bachmann process. Progress report. Jun 1942.
19p tables, graphs. MI \$1.00 Ph \$2.00.
- OSRD 657 PBL 5244 (1-505)
Thompson, K. J.
"Experiments with incendiary mixtures" and "Fire test structure and development of incendiary bombs." 1942.
5p illus. Ph \$4.00 MI \$1.00.
- OSRD 659 PBL 32179 (2-828)
Zener, C., and Hollomon, J. H.
Addendum to von Karman's theory of the propagation of plastic deformation in solids. Jun 1942.
8p graphs. MI \$1.00 Ph \$1.00.
See also PB 20276 and PB 18885.
- OSRD 663 PBL 27277 (2-731)
Bennett, Evert G., and Cook, Richard K.
Firing of squibs by condenser discharge, energy losses in thyristors. Progress report. Jun 1942.
19p diagrs, graphs. MI \$1.00 Ph \$1.00.
- OSRD 664 PBL 33188 (4-203)
Bohnenblust, H. F.
A note on von Karman's theory of the propagation of plastic deformation in solids. Jun 1942.
9p graphs. MI \$1.00 Ph \$1.00.
- OSRD 670 PBL 16488 (1-1548)
Preisman, Albert
Developmental model of an interference generator for the 15 to 30 megacycle spectrum. Final report on project C-28. Jun 1942.
114p photos, diagrs, curves.
MI \$1.50 Ph \$8.00.
- OSRD 675 PBL 27312 (2-608)
Roberts, Clifford
Contract ODMar-112 (gun turret design for light and medium tanks). Final report. Jun 1942.
37p MI \$1.00 Ph \$3.00.
- OSRD 676 PBL 32183 (2-826)
Kirkwood, John G., and Montroll, Elliott, M.
The pressure wave produced by an underwater explosion: Part II. Progress report. Jun 1942.
46p tables. MI \$1.00 Ph \$3.00.
- OSRD 677 PBL 5245 (1-502)
Kharasch, M. S., and Westheimer, F. H.
Development of SDQ as an incendiary material, particularly as a hand incendiary. 1942.
34p illus. Ph \$3.00 MI \$1.50.
- OSRD 678 PBL 32804 (2-801)
Bowman, H. L.
Report of tests of balk fasteners for the 25-ton and 10-ton pontoon bridges. Jun 1942.
7p tables, photos. MI \$1.00 Ph \$1.00.
- OSRD 679 PBL 20277 (2-188)
Bowman, H. L.
Report to the Engineer Board on a trestle and pontoon bridge for 60-ton tanks, Jun 1942.
30p drawings, photos, tables.
MI \$1.50 Ph \$2.00
See also PB 20289
- OSRD 680 PBL 5569 (1-454)
Hutchens, John O., and others
Report on "Constant flow micro-apparatus for exposure of mice to volatile toxic agents under controlled conditions," to May 12, 1942. 1942.
19p illus. Ph \$2.00 MI \$1.50.
- OSRD 683 PBL 27308 (2-585)
McMaster, Philip D.
A method for delivering equal amounts of fluids of differing physical properties. Progress report. Jul 1942.
10p tables. MI \$1.00 Ph \$1.00.
- OSRD 684 PBL 31110 (3-64)
Pekeris, C. L.
Theoretical discussion of reverberation. May 1942.
30p curves. MI \$1.00 Ph \$2.00.

- OSRD 685 PBL 5243 (1-500)
Cousins, E. M.
Effect of nozzle design on the range of burning jets. 1942.
9p illus. Ph \$1.00 MI \$5.00.
- OSRD 690 PBL 32805 (2-801)
Bowman, R. L.
Welded steel bulk fasteners. n.d.
4p photos. MI \$1.00 Ph \$1.00.
- OSRD 694 PBA 34797 (3-81)
Johnson, John R.
Crystallographic studies of RDX, HMX and related compounds. Progress report, Jun 30, 1942.
30p diagrs. MI \$1.00 Ph \$2.00.
- OSRD 696 PBL 23690 (2-268)
Rojansky, V.
Theory of a two-dimensional ballistic pendulum. Progress report, Jul 1942.
20p diagrs. MI \$5.00 Ph \$2.00.
- OSRD 705 PBL 31119 (3-97)
Bell Telephone Laboratory, New York (City)
A subaqueous projector for hydrophone calibrations in the audible frequency range. Jun 1942.
56p photos, curves, diagrs, tables. MI \$2.00 Ph \$4.00.
- OSRD 707 PBL 27278 (2-732)
Huntton, Robert D.
Radar ranging on antiaircraft shell bursts. Progress report, May 1, 1942. Jul 1942.
36p MI \$1.00 Ph \$3.00.
- OSRD 711 PBL 32806 (2-652)
Bowman, R. L.
Tests of metal bulk. Jul 1942.
8p curves, photos. MI \$1.00 Ph \$1.00.
- OSRD 716 PBL 31111 (2-796)
Dietze, E.
Calibration of electro-acoustic transducers for hydrophonic systems. Apr 1942.
28p charts, curves. MI \$1.00 Ph \$2.00.
- OSRD 721 PBL 34113 (2-890)
U. S. National Defense Research Committee
Selection of stereoscopic range finder operators. Jul 1942.
38p drawings, diagrs. MI \$1.00 Ph \$3.00.
- OSRD 722 PBL 16755 (1-1024)
Cross, R. C., and others
Compilation of current data on selected alloys suitable for high temperature service in gas turbine and supercharger parts. Jul 1942.
18p tables. MI \$5.00 Ph \$2.00.
- OSRD 723 PBA 6702 (1-827)
Price, Charles C.
The hydrolysis of beta beta' dichloro-diethylsulfide in the vapor phase. The quantitative estimation of beta beta' dichloro-diethylsulfide in solution. May 1942.
17p MI \$5.00 Ph \$2.00.
- OSRD 724 PBA 39708 (3-551)
Smith, Lee I.
The preparation of certain hindered amides. Progress report, Apr 4, 1942. Jul 1942.
9p MI \$1.00 Ph \$1.00.
- OSRD 730 PBL 23774 (2-467)
Nebert, Martin, Jr.
Theory and design of rectangular sound absorbing ducts. Jun 1942.
36p charts, graphs. MI \$5.00 Ph \$3.00.
- OSRD 731 PBL 15881 (1-936)
Mehl, Robert F., and others
Steel for gun tubes. Progress report: Jul 15, 1942. Jul 1942.
84p photos, tables, diagrs, graphs. MI \$1.00 Ph \$6.00.
- OSRD 732 PBL 60933 (4-1061)
Barber-Colman Company, Rockford, Ill.
Description and operating instructions for short range A.A. director T-21. Jun 1942.
24p photos, diagr, drawing. MI \$1.00 Ph \$2.00.
- OSRD 739 PBA 6001 (1-602)
Smith, Lee I.
Report on "The preparation of o-amino-benzaldehyde" to April 10, 1942. 1942.
6p MI \$5.00 Ph \$1.00.
- OSRD 742 PBL 18480 (1-1414)
White, Merit P., and Griffiths, LeVan
The permanent strain in a uniform bar due to longitudinal impact. Jul 1942.
46p MI \$5.00 Ph \$4.00.
- OSRD 744 PBA 5987 (1-565)
Kirkpatrick, E. C.
Study of polymers for thickening gasoline, period November 15-December 15, 1943. 1943.
2p MI \$5.00 Ph \$1.00.
- OSRD 746 PBL 31114 (2-796)
Foldy, Leslie L.
Properties of acoustic screens for underwater applications. Jul 1942.
7p MI \$1.00 Ph \$1.00.
- OSRD 749 PBM 39708 (3-547)
Kharasch, M. S.
A study of peroxides suitable for the treatment of M-1 burns. Progress report. Jul 1942.
8p table, graphs. MI \$1.00 Ph \$1.00.
- OSRD 752 PBA 6706 (1-829)
Adams, Roger, and others
The preparation of some high molecular weight esters. Apr 1942.
32p MI \$5.00 Ph \$3.00.
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Tub bridge. Jul 1942.
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Fowler, M. A.
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Dietze, E.
Absolute efficiency of projectors and hydrophones. Aug 1942.
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Ayres, Eugene
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Pauling, Linus, and others
Report on improvements in instrument for measuring. 1942.
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Bohnenblust, H. F.
Comments on White and Griffiths' theory of the permanent strain in a uniform bar due to longitudinal impact. Aug 1942.
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Report on College (Alaska) Observatory,
March 1941 through June 1942. Aug 1942.
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Chemical tests for new explosives. Prog-
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Kirkwood, John G.
Memorandum on the plastic deformation of
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Africano, Alfred, and Golden, Sidney
Tests of the 4.2-in. chemical mortar.
Progress report. Aug 1942.
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Hamilton, Cliff S.
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Piezoelectric projectile accelerometer and a
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Dietze, E.
The absolute efficiency of a device used
as a projector and as a hydrophone. Aug 1942.
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Kirkwood, John G., and Richardson, John M.
The pressure wave produced by an under-
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Sage, B. H., and others
Pressure distribution along radially burning
propellant grains. Progress report. Aug 1942.
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Bachmann, W. E.
Edna and related compounds. Final report.
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The effect of solid lubricant on bullet
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Beth). Aug 1942.
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Chipman, John, and others
Non-magnetic steels for armor plate (AC-6)
Final report, Jul 31, 1942. Aug 1942.
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- OSRD 824 PBA 5588 (1-477)
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Bartlett, Paul D.
The corrosion of steel by 50% HS-50% M-1
mixture. Report to Jun 13, 1942. Aug 1942.
15p graphs, tables. MI \$1.50 Ph \$1.00.
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Acoustic design of earphone sockets for
helmets and headsets. Aug 1942.
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Measurements of the velocity and imped-
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10p diagr, graphs. MI \$1.00 Ph \$1.00.
- OSRD 829 PBL 31115 (2-872)
Graham, F. H.
Measurements of sound transmission through
single and double plates. Aug 1942.
7p tables, curves, drawings. MI \$1.00
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Shriner, R. L.
Report on "Synthesis of compounds related to
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- OSRD 834 PBA 50811 (5-473)
Bartlett, Paul D.
The reaction of M-1 (Lewisite) with amines.
The preparation of M-1 diethoxide (diethoxy-B-
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Report on "Aliphatic dichloroarsines," to
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Lovell, Stanley, P.
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materials for brass in miscellaneous hardware.
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Fuson, R. C.
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- OSRD 852 PBA 5589 (1-477)
Drade, Nathan L.
Report on "The preparation of diethyl zinc."
23p Ph \$2.00 MI \$1.50.
- OSRD 854 PBA 5593 (1-454)
Gelling, E. M. K., and others
Report on "A new apparatus for exposure of
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Machines)." to Aug 26, 1942.
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Report on "Nitrogen trichloride studies" to August 1, 1942. 1942.
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Northrop, John H.
Progress report on "Titration of HS, Q. T. M-1, ED and PDA with hypochlorite and methyl red," to August 25, 1942. 1942.
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Toxicity and vesicant action of various organic tin compounds. Progress report to August 27, 1942. Sep 1942.
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Report on "Preparation of triethylboron to be used generally in incendiaries and for ignition of oil on water," to June 12, 1942. 1942.
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Frazer, J. C. M., and Horn, F. Hubbard
Interaction of carbon monoxide iron. Progress report. Sep 1942.
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Marvel, C. S.
Explosive polymers. Progress report. Sep 1942.
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Dodge, Bennett F.
Report on "Rectification of air in a two-inch packed column," to August 6, 1942. Aug 1942.
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- OSRD 877 PBL 23773 (2-227)
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The design and testing of a centrifugal air cleaner. Jul 1942.
51p diagrs, graphs, photos. MI \$1.00 Ph \$4.00.
- OSRD 880 PBL 6577 (1-636)
Northrop, John H.
Report on "Photoelectric cell for recording the presence of HS or other gases in air" to September 10, 1942. 1942.
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Weith, A. J., and Turkington, V. H.
Report on "Protective coatings for ship bottoms." 1942.
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Sinclair, George
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- 75p photos, graphs, diagrs. MI \$1.00 Ph \$5.00.
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Davis, Hallowell, and others
Physiological effects of exposure to certain sounds: Final report. Jul 1942.
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Dushman, Saul
Report of work on slow phosphors for radar indicator screens. Progress report. May 1942.
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Leverenz, H. W.
Summary of RCA research on radar indicator screens, Jan 1941 to Mar 1942. (RCA Manufacturing Co., Harrison, N. J.) Apr 1942.
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National Research Corporation
Fogging of vision devices under flight conditions. n.d.
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Wehner, R. S.
Broad-band inverted-L antenna. Jul 1944.
14p MI \$0.50 Ph \$1.00.
- OSRD 895-25 PBL 14302 (1-994)
Atwood, J. B., and Mansell, G. E.
Pulse amplitude selective AGC circuit. Jul 1944.
10p diagrs. MI \$0.50 Ph \$1.00.
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Wehner, R. S.
Antenna for horizontal polarization at UHF. Oct 1944.
12p charts, drawing. MI \$0.50 Ph \$1.00.
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A flush surface antenna of the slot-cavity type having wide band characteristics. Mar 1945.
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Williams, J. W.
Mechanism of gelatinization and solution of fibrous nitrocellulose in non-aqueous solvents. Progress report. Sep 1942.
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Kharasch, M. S.
Report on "Catalytic conversion of diphosgene to phosgene within closed heavy metal containers," to September 10, 1942. 1942.
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- OSRD 901 PBL 22845 (2-86)
Egan, J. P., and others
Performance of communication equipment in noise. Oct 1942.
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Brinkley, Stuart R., Jr., and Wilson, E. Bright, Jr.
Revised method of predicting the detonation velocities in solid explosives. Progress report. Sep 1942.
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- OSRD 906 PBA 63647 (5-475)
McReynolds, J. P.
Mercuric iodide as a reagent for detecting HS and insoluble chromates as reagents for detecting M-1. Sep 1942.
8p tables. MI \$1.00 Ph \$1.00.
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Elderfield, R. C.
Explosives from hydroxy and amino compounds. Progress report. Sep 1942.
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- OSRD 910 PBL 20275 (2-122)
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Propagation of plastic waves, a comparison of reports NDRC A-29 and R. C. 329. Sep 1942.
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Johnson, John R.
Studies relating to aliphatic nitramines. Progress report, Sep 15, 1942. Oct 1942.
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Hart, W. B.
Report on confining and collecting petroleum products from spills or leaks to waterways. Sep 1942.
35p sketches. MI \$0.50 Ph \$3.00.
- OSRD 918 PBL 15876 (1-1109)
Chapman, E. C.
Progress report on development of armor welding electrodes; tests on Coast Metals, Inc. electrodes. Oct 1942.
11p photos. MI \$0.50 Ph \$1.00.
- OSRD 919 PBL 31206 (2-652)
Bridgman, P. W.
Plastic deformation of steel under high pressure. Progress report. Sep 1942.
40p tables, photos, graphs. MI \$1.00 Ph \$3.00.
- OSRD 921 PBA 9385 (1-603)
Calvin, Melvin
Report on "Chelate oxygen compounds and equipment for their use," to August 1, 1942. 1942.
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- OSRD 922 PBL 23786 (2-70)
Ford Motor Company
Amphibious reconnaissance car 1/4-ton 4x4 model: Specifications. Aug 1942.
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U. S. National Defense Research Committee
The chromatic dispersion of the human eye and its possible influence on stereoscopic range finding. Report to the Services No. 85. Oct 1942.
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- OSRD 925 PBL 24893 (2-212)
Ewell, R. H.
Theory and tactics of incendiary bombing. Oct 1942.
31p chart, diagr, tables. MI \$1.50 Ph \$3.00.
- OSRD 927 PBL 50854 (4-292)
Emrich, R. J., and Delsasso, L. A.
Short base line projectile velocity measurements. Progress report. Oct 1942.
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MI \$1.00 Ph \$3.00.
- OSRD 929 PBL 23679 (2-355)
Golden, S.
Pressure relationships holding within small rockets. Progress report. Sep 1942.
28p photos, graphs, tables, sketches.
MI \$1.50 Ph \$2.00.
- OSRD 930 PBL 34132 (2-988)
U. S. National Defense Research Committee
Part I. The influence of atmospheric scattering in range finding. Part II. Effect of atmospheric scattering upon the appearance of a dark object. Oct 1942.
123p diagrs, graphs. MI \$3.00 Ph \$9.00.
- OSRD 931 PBL 20274 (2-123)
Duzew, Pol E., and others
The propagation of plastic strain in tension. Progress report. Oct 1942.
90p curves, photos. MI \$1.00 Ph \$6.00.
- OSRD 932 PBL 23765 (2-109)
National Research Corporation
Air conditioning as a means of eliminating fog and frost formation on glass surfaces in optical instruments. Oct 1942.
4p MI \$1.50 Ph \$1.00.
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Carmack, Marvin, and Handrick, Richard
Report on "The by-products of commercial mustard gas made from ethylene and the sulfur chlorides," to Sept. 15, 1942. 1942.
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Hirschfelder, J. O., and Sherman, Jack
Simple calculation of thermochemical properties for use in ballistics. Progress report. Oct 1942.
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- OSRD 935, Addenda PBL 27421a (5-96)
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Simple calculation of thermochemical properties for use in ballistics. Mar 1943.
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Cross, Howard C.
Heat resisting metals for gas turbine parts N-102, Progress report, Sep 1942. Oct 1942.
34p graphs, tables. MI \$1.00 Ph \$3.00.
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- OSRD 940 PBL 8080 (1-801)
Rodebush, W. H., and others
Report on "screening smokes." Oct 1942.
183p illus. MI \$2.00 Ph \$13.00.
- OSRD 941 PB 5556 (1-560)
Noller, Carl R.
Report on "The sternutatory properties of certain organic compounds," to September 20, 1942.
44p Ph \$3.00 MI \$1.50.
- OSRD 942 PBA 5557 (1-537)
Bartlett, Paul D.
Report on "The beta-chloroethylamines: Kinetics of displacement, hydrolysis, and dimerization of beta-chloroethylidithiolamine, methyl-bis-beta-chloroethylamine, and tris-beta-chloroethylamine and their similarity to the reactions of NS," to September 18, 1942. 1942.
32p Ph \$3.00 MI \$1.50.
- OSRD 943 PBL 27288 (2-743)
Gibson, R. E.
The rate of burning of double-base powders and the possible effects of change in nitro-glycerin and total-volatiles content on the burning of jet propulsion tube powder. Progress report. Oct 1942.
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- OSRD 944 PBL 5558 (1-537)
Buswell, A. M.
Report on "Analysis and treatment of water," to August 31, 1942. 1942.
13p Ph \$1.00 MI \$1.50.
- OSRD 945 PBA 9386 (1-760)
Diehl, Harvey
Development of "oxygen-carrying compounds," to Sep 1, 1942. 1942.
95p illus. MI \$1.00 Ph \$7.00.
- OSRD 946 PBL 18477 (1-1443)
Karman, Th. von, and others
The propagation of plastic waves in tension specimens of finite length, theory and methods of integration. Oct 1942.
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Lacey, M. N., and Sage, B. H.
Some physical properties of ballistite. Progress report, Dec 27, 1941. Oct 1942.
29p photo, graphs, tables.
MI \$1.00 Ph \$2.00.
- OSRD 962 PBL 22846 (1-1800)
Caywood, T. E., and Beranek, L. L.
Acoustical considerations in the design of an oxygen mask. Oct 1942.
33p photos, curves. MI \$1.50 Ph \$3.00.
- OSRD 953 PBL 16761 (1-1113)
Tucker, C. W., and Anderson, H. V.
X-ray measurement of residual stresses in cold drawn non-ferrous alloys (OD-25) Progress report: Jun 15-Oct 15, 1942. Oct 1942.
28p photos, diagrs, tube. MI \$1.50 Ph \$2.00.
- OSRD 955 PBL 31721 (3-97)
Bell Telephone Laboratories, New York City
A standard crystal hydrophone. Oct 1942.
78p photos, curves, diagrs, drawings.
MI \$2.00 Ph \$6.00.
- OSRD 958 PBA 63646 (5-480)
Lewis, Clay
Activation of gas charcoal by a new jigglers process. Jul 1942.
158p diagrs, graphs, tables.
MI \$4.00 Ph \$11.00.
- OSRD 957 PBL 20273 (2-122)
Duzew, Pol E., and others
The influence of specimen length on strain propagation in tension. Progress report. Oct 1942.
39p graphs. MI \$1.50 Ph \$3.00.
- OSRD 959 PBL 23762 (2-63)
Lewis, Herbert B.
Aircraft brakes. Progress report. Sep 1942.
4p MI \$1.50 Ph \$1.00.
- OSRD 960 PBL 23764 (2-247)
National Research Corp., Boston
Rain-repellent coatings as an aid to visibility through vision devices. n.d.
10p photos. MI \$1.50 Ph \$1.00.
- OSRD 966-41 PBL 14317 (1-1057)
Heinzelman, G. J., and Lindner, J. L.
Jamming susceptibility of the Japanese model 99 type MI 3 radio set. Nov 1944.
6p diagrs. MI \$1.50 Ph \$1.00.
- OSRD 968 PBL 23208 (2-72)
Eastes, J. W., and Mueller, E. R.
Desalting of sea water (ML-85). Final report, May 1, 1942. Oct 1942.
15p MI \$1.50 Ph \$1.00.
- OSRD 969 PBL 5858 (1-450)
Rudmose, H. Wayne, and others
Design of an automatic octave sound analyzer and recorder. 1942.
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- OSRD 970 PBA 16443 (1-1376)
Pierce, W. C.
A summary of Tests on Soda Lime. Oct 1942.
10p tables. MI \$1.50 Ph \$1.00.
See PB 15441 for earlier progress report.
- OSRD 973 PBL 40548 (3-413)
Archer, Robert S., and others
Boron in steel. Final report, Sep 1942. Nov 1942.
21p MI \$1.00 Ph \$2.00.
- OSRD 975 PBL 50813 (4-524)
Lovell, S. P., and Lehmborg, M. H.
Collapsible canteen: Material and construction. Oct 1942.
3p MI \$1.00 Ph \$1.00.
- OSRD 976 PBL 31116 (2-951) (3-53)
Pekeris, C. L.
The rate of rise and diffusion of air bubbles in water. Oct 1942.
29p tables, curves, charts.
MI \$1.00 Ph \$2.00.
- OSRD 980 PBL 8081 (1-794)
Brown, George, and others
Report on "The mechanical formation of screening smokes using salt solution." Oct 1942.
62p illus. MI \$1.00 Ph \$5.00.
- OSRD 983 PBL 4188 (1-321)
Standard Oil Development Co.
Development of flame throwers, modification of portable flame thrower for thickened fuels. First progress report, 1942.
39p MI \$1.50 Ph \$3.00.

- OSRD 987 PBL 19785 (2-55)
Harvard University Psycho-Acoustic Laboratory
The problem of selecting and training personnel for communication in intense noise. Nov 1942.
24p graphs, tables. MI \$1.50 Ph \$2.00.
- OSRD 988 PBL 20272 (2-123)
Dunne, Pol E., and others
The effect of stopped impact and reflection on the propagation of plastic strain in tension. Progress report. Nov 1942.
19p curves. MI \$1.50 Ph \$2.00.
- OSRD 989 PBL 34133 (2-824)
U. S. National Defense Research Committee
The Eastman trainer for rangefinder observers. Oct 1942.
70p graphs, charts, photos.
MI \$2.00 Ph \$5.00.
- OSRD 991 PBA 5571 (1-478)
Hamilton, C. S.
Annual report on organic arsenicals. 1942.
76p Ph \$6.00 MI \$1.00.
- OSRD 994 PBL 34143 (3-50)
U. S. National Defense Research Committee and others.
Temperature effects in stereoscopic height finders. Report to the services No. 38: Section D-2. Fire Control. Oct 1942.
157p drawings, curves, diagrams, graphs.
MI \$4.00 Ph \$11.00.
- OSRD 995 PBL 34142 (3-124)
U. S. National Defense Research Committee
Orthopseudoscopic rangefinder. Report to the services No. 43: Section D-2, Fire Control. Oct 1942.
107p diagrs, curves, tables.
MI \$3.00 Ph \$8.00.
Includes Princeton University Fire Control Research report No. 10, Vol. 2, PB 34136
- OSRD 997 PBL 31103 (2-786)
Long, F. A., and others
The efficiencies of various substances in promoting the gelatinization of nitrocellulose in 2:1 ether ethanol. Progress report, Sep 15, 1942. Nov 1942.
68p curves, tables. MI \$2.00 Ph \$5.00.
- OSRD 998 PBA 16444 (1-1376)
Blacet, F. E., and Johnstone, H. F.
The penetration and persistence of carbon dioxide when released in an enclosed court. Oct 1942.
18p diagrs, photos. MI \$1.50 Ph \$2.00.
- OSRD 999 PBL 27284 (2-809)
Sage, B. H.
Comparative behavior of ballistite from Kenvil and Radford. Progress report. Nov 1942.
17p curves, diagrs, photos.
MI \$1.00 Ph \$2.00.
- OSRD 1001 PBL 51008 (4-878)
U. S. National Defense Research Committee
The effects of loud sounds on the accuracy of azimuth tracking and of stereoscopic range finding. (Report to the Services No. 37.) Nov 1942.
3p MI \$1.00 Ph \$1.00.
- OSRD 1002 PBA 50812 (5-383)
McCabe, M. L.
Investigation in connection with the preparation of wood charcoal suitable for activation. Annual formal report, Sep 1, 1941-Aug 31, 1942. Oct 1942.
44p graphs, drawings, tables.
MI \$1.00 Ph \$3.00.
- OSRD 1003 PBL 33187 (2-879)
Hansen, Robert J.
Construction of resistance strain gages. Nov 1942.
8p photo, diagr. MI \$1.00 Ph \$1.00.
See also PB 18478.
- OSRD 1005 PBL 23763 (2-70)
Yellow Truck and Coach Manufacturing Co., General Motors Truck and Coach Div., Pontiac, Mich.
Model-DUKW 353. Oct 1942.
71p drawings, photos. MI \$1.00 Ph \$5.00.
- OSRD 1006 PBA 23216 (2-71)
Dow, R. P., and others
Annotated bibliography and subject index on shipbottom-fouling organisms and antifouling research. Sep. 1942.
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| PB 23216 | 336p | \$3.50 | \$23.00 |
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| PB 23217 | 197p | \$2.00 | \$14.00 |
- OSRD 1009 PBL 15880 (1-940)
Mehl, Robert F., and Wells, Cyril
Steel for gun tubes; Final report, Part I. The Significance of angular fractures. Nov 1942.
47p photos, drawings, graphs.
MI \$1.50 Ph \$4.00.
- OSRD 1011 PBL 8318 (1-804)
Dodge, Barnett F.
Report on "Preliminary results of tests on regenerators" to August 1, 1942. 1942.
39p illus. MI \$1.50 Ph \$3.00.
- OSRD 1014 PBL 27289 (2-744)
Osborne, D. W., and others
Thermodynamic properties of special double-base powders. Progress report. Oct 1942.
123p tables, biblio. MI \$3.00 Ph \$9.00.
- OSRD 1015 PBA 5572 (1-1337)
DuPont de Nemours and Co., Inc., E. I.
Report on Corneal cloudiness from dimethyl diglycolate and related compounds to Oct 1, 1942. Nov 1942.
10p photos. MI \$1.50 Ph \$1.00.
- OSRD 1017 PBA 5573 (1-536)
Adkins, Homer
Report on "N-vanillylundecylamide and N-vanillyl-lamendamide" to November 1, 1942.
21p Ph \$2.00 MI .50.
- OSRD 1018 PBL 8316 (1-603)
Calvin, Melvin, and others
Chelate oxygen compounds and the mechanism of the absorption reaction. 1942.
67p illus. MI \$1.00 Ph \$5.00.
- OSRD 1024 PBL 23761 (2-70)
Putnam, P. C.
Development of wessel, with notes on problems of its use. Interim report. Nov 1942.
79p charts, graphs, photos.
MI \$1.00 Ph \$6.00.
- OSRD 1024-32 PBL 14357 (1-1300)
Hoffmann, Paul F.
Vulnerability study of Japanese Model 8 radio set. Sep 1945.
2p MI \$1.50 Ph \$1.00.
- OSRD 1025 PBL 19660 (1-1296)
Thimann, Kenneth A., and Kaufman, David
Report on the preparation and properties of chlorophyll paints. Oct 1942.
42p graph, table. MI \$1.50 Ph \$3.00.
- OSRD 1030 PBL 32185 (2-826)
Kirkwood, John G., and others
The pressure wave produced by an underwater explosion: Part IV. Progress report; Sep 30, 1942. Nov 1942.
28p curves. MI \$1.00 Ph \$2.00.
- OSRD 1035 PBL 32191 (2-827)
MacDougall, D. P.
Underwater explosives research. First progress report. Nov 1942.
31p curves, diagrs, photos.
MI \$1.00 Ph \$3.00.
- OSRD 1039 PBL 39715 (3-746)
Davidson, Kenneth S. M., and Drisko, John B.
The No. 2 tank for maneuvering tests. Nov 1942.
14p photos, drawings. MI \$1.00 Ph \$1.00.
- OSRD 1040 PBL 40599 (3-821)
McMillan, Edwin M., and others
Echo repeater target, surface model RR-1. Nov 1942.
21p photos, drawings, diagrs, curves.
MI \$1.00 Ph \$2.00.
- OSRD 1045 PBA 5572 (1-478)
Bent, H. E.
Report on "Volatility of certain arsenic and nitrogen compounds" to August 1, 1942. 1942.
24p illus. Ph \$2.00 MI .50.
- OSRD 1058 PBA 5573 (1-593)
McReynolds, J. P.
Report on "An investigation of the products formed in the pyrolysis and combustion of mustard gas from the standpoint of its detection" to November 5, 1942. 1942.
11p MI .50 Ph \$1.00.
- OSRD 1059 PBA 5574 (1-537)
Bent, H. E.
Report on "The vapor pressure of H₂S and diphenyl ether and solutions of these compounds" to July 31, 1942. 1942.
15p illus. MI \$1.50 Ph \$1.00.
- OSRD 1060 PBA 5575 (1-470)
Gasser, H. S.
Report on "Biological methods for determination of M-1 and DM in solutions and in air," to September 1, 1942. 1942.
56p illus. Ph \$4.00 MI \$1.00.
- OSRD 1062 PBA 5574 (1-437)
Bent, H. E.
Report on "Volatility of Lovinatin Mustard." 9p MI .50 Ph \$1.00.
- OSRD 1065 PBL 15862 (1-1348)
Lorig, C. H.
The effects of hydrogen, nitrogen, and oxygen in armor plate: Literature survey OD-38-2. Progress report, Oct 24, 1942. Nov 1942.
93p graphs, photos. MI \$1.00 Ph \$2.00.

- OSRD 1069 PBL 27287 (2-837)
Sage, R. H.
Some studies of the internal ballistics of jet-propelled devices. Progress report. Nov 1942.
57p graphs. MI \$2.00 Ph \$4.00.
- OSRD 1075 PBA 5576 (1-1142)
Bartlett, Paul D.
"The production of Lewisite by the mercuric chloride process: Investigation of the effects of impurities in arsenic trichloride." Report to Nov. 15, 1942. Dec 1942.
13p tables, graphs. MI \$1.50 Ph \$1.00.
- OSRD 1078 PBL 31117 (3-86)
Graham, F. H., and Dietze, E.
Motional impedance analysis of underwater-sound devices. Dec 1942.
12p curves, diagrs. MI \$1.00 Ph \$1.00.
- OSRD 1079 PBL 23878 (1079)
Maas, Leo, Jr.
Rockets for assisted take-off of airplanes; their use and the prevention of blast injury to the airplane. Progress report. Dec 1942.
23p photos, diagrs, graphs, tables. MI \$5.50 Ph \$2.00.
- OSRD 1086 PBL 31118 (3-86)
Dietze, E.
The relation between the absolute efficiency of a hydrophone and its thermal noise level. Dec 1942.
5p MI \$1.00 Ph \$1.00.
- OSRD 1087 PBL 28531 (2-743)
Hirschfelder, J. O., and others
Thermodynamic properties of propellant gases. Progress report. Nov 1942.
146p diagrs, tables, graphs. MI \$3.00 Ph \$10.00.
An extension and revision of NDRC report No. A-48 (OSRD No. 547, PB 23693).
- OSRD 1088 PBL 18483 (1-1245)
Anderson, E. A., and others
Prevention of stress corrosion cracking of cartridge brass (00-25): Progress report, Aug 15-Nov 15, 1942. Dec 1942.
37p photos, diagrs, tables. MI \$5.50 Ph \$3.00.
- OSRD 1093 PBL 31122 (2-797)
Nyquist, Harry
Directivity of sound in water—Elementary arrays. Jun 1942.
40p curves. MI \$1.00 Ph \$3.00.
- OSRD 1094 PBA 5577 (1-528)
Doering, W. E., and others
Report on "Reactions of the chlorine atoms of mustard gas in aqueous media." 1942.
33p Ph \$3.00 MI \$5.00.
- OSRD 1097 PBL 51007 (5-186)
U. S. National Defense Research Committee
Stereo and vernier acuity as affected by metrazol, loss of sleep, benzedrine, variations in the blood sugar, and hyperventilation. (Report to the Services No. 44.) Nov 1942.
15p graphs, tables. MI \$1.00 Ph \$2.00.
- OSRD 1099 PBL 18512 (1-1577)
Dom, John E.
Properties and heat treatment of magnesium alloys. Progress report, Nov 7, 1942. Dec 1942.
66p photos, drawings, tables. MI \$1.00 Ph \$5.00.
- OSRD 1101 PBL 20268 (2-117)
Jones and Lamson Machine Co., and Bryant Chucking Grinder Co., Springfield, VT.
Screw threads, a bibliography of available material on screw thread theory, standards, production methods and gaging methods. Summary report. 1942.
489p MI \$5.00 Ph \$33.00.
- OSRD 1104 PBL 53828 (5-308)
Karush, W., and Critchfield, C. L.
Drag coefficient for a cone moving with high velocity. Dec 1942.
21p graphs, tables. MI \$1.00 Ph \$2.00.
- OSRD 1105 PBL 18479 (1-1275)
Richart, F. E., and Newmark, N. M.
Impact tests of reinforced concrete beams. Dec 1942.
34p photos, graphs, charts. MI \$5.50 Ph \$3.00.
- OSRD 1110 PBL 15888 (1-1346)
Dean, G. E., and others
Progress report on Evaluation of weldability by direct welding tests. 00-37-1. Progress report, Dec 14, 1942. Dec 1942.
116p graphs, tables. MI \$1.50 Ph \$8.00.
- OSRD 1111 PBA 5575 (1-538)
Dupont De Nemours, E. I., and Co.
Preparation of BAL, report to December 1, 1942.
37p MI \$5.50 Ph \$3.00.
- OSRD 1112 PBL 34134 (2-825)
U. S. National Defense Research Committee
Field tests of Eastman Kodak 15" and Polaroid 43" base rangefinders. Dec 1942.
20p graphs. MI \$1.00 Ph \$2.00.
- OSRD 1113 PBL 28770 (2-155)
Carver, E. K., and Broughton, G.
Rheological properties of thickened liquids. First report, Jun 5, 1942-Dec 1, 1942. Dec 1942.
80p drawings, graphs, tables, photos. MI \$1.00 Ph \$5.00.
- OSRD 1115 PBL 32181 (2-825)
Kirkwood, John G.
The plastic deformation of marine structures by an underwater explosion wave: Part II. Progress report, to Nov 15, 1942. Dec 1942.
23p MI \$1.00 Ph \$2.00
See also PB 32195.
- OSRD 1120 PBL 21129 (1-1602)
O'Brien, Morrough P.
The removal of oil from harbor waters by means of chemically treated sand: Final report. Nov 30, 1942. Jan 1943.
112p drawings, diagrs, graphs, photos. MI \$1.50 Ph \$8.00.
- OSRD 1123 PBL 4651 (1-370)
Thompson, Norman J., and Blair, Edwin A.
Development of incendiary mixtures. 1943.
21p illus. Ph \$2.00 MI \$5.00.
- OSRD 1126 PBL 16440 (1-985)
Blacet, F. E.
Experiments with type as Whetlerites at Fostoria, Columbus and Zanesville, Ohio. Dec 1942.
18p MI \$5.50 Ph \$2.00.
- OSRD 1128 PBL 34131 (3-48)
U. S. National Defense Research Committee, and Flood, Merrill M.
Perspective effects in stereoscopic range finders. Report to the Services No. 40: Sect. D-2, Fire control. Dec. 1942.
92p tables, diagrs, charts, curves. MI \$2.00 Ph \$7.00.
See also PB-34136 and 34137.
- OSRD 1137 PBL 19815 (1-1524)
Lewis, Dartrey
Corrosion fatigue failure of aircraft control cables (N-101): Effect of lubrication on fatigue properties. Progress report I, Dec 11, 1942. Jan 1943.
40p graphs. MI \$5.50 Ph \$3.00.
- OSRD 1139 PBL 20839 (2-72)
Kehpe, Robert A., and Cholak, J.
Methods for the purification of water after its transportation and storage in cans, drums and tanks that have been employed as containers for leaded gasoline: Final report. Dec 1942.
37p MI \$5.50 Ph \$3.00.
- OSRD 1140 PBL 32719 (3-275)
Neumann, John von
Theory of shock waves. Progress report, Aug 31, 1942. Jan 1943.
29p MI \$1.00 Ph \$2.00.
- OSRD 1146 PBL 19522 (1-1579)
Russell, H. W.
Fatigue properties of magnesium alloys and structures: Fatigue properties of magnesium alloy sheet. Progress report, Dec 7, 1942. Jan 1943.
36p photos, diagrs, curves. MI \$5.50 Ph \$3.00.
- OSRD 1147 PBL 16754 (1-1411)
Schuh, A. E., and Boyles, Alfred
Improvements in and extension of centrifugal casting methods for production of miscellaneous war material items. Progress report, Nov 30, 1942. Jan 1943.
33p photos, tables. MI \$5.50 Ph \$3.00.
- OSRD 1150 PBA 5578 (1-479)
Hill, G. Albert
Report on "The synthesis of compounds related to Urushiol." November 1, 1942. 1942.
11p Ph \$1.00 MI \$5.50.
- OSRD 1154 PBA 18570 (2-244)
Elderfield, R. C., and Hammett, L. P.
Kinetic studies on the nitration process: Progress report, Sep 30, 1942. Jan 1943.
8p MI \$5.50 Ph \$1.00.
- OSRD 1155 PBL 19551 (1-1413)
Thompson, J. G., and others
Beryllium-aluminum alloys for engine parts. Progress report, Dec 22, 1942. Jan 1943.
25p MI \$5.50 Ph \$2.00.
- OSRD 1157 PBL 27350 (2-576)
Strong, J. D., and others
Far infrared detecting devices. First progress report. Dec 1942.
94p photos, graphs, diagrs, drawings. MI \$2.00 Ph \$7.00.

- OSRD 1160 PBL 28599 (2-358)
Harrison, George R.
Conference on new optical materials, instruments, and methods: National Defense Research Committee. Oct 1942.
74p drawings. MI \$2.00 Ph \$5.00.
- OSRD 1162 PBL 23775 (2-127)
U. S. National Research Council, War Metallurgy Committee
Proposed research project: Rivets and rivet steels. Advisory report. Dec 15, 1942. Jan 1943.
12p MI \$1.50 Ph \$1.00.
- OSRD 1163 PBL 15879 (1-940)
Wells, Cyril, and Mehl, Robert F.
Steel for gun tubes. Part II. Acceptance tests for wrought gun tubes. Final report. Jan 1943.
92p charts. MI \$1.00 Ph \$7.00.
- OSRD 1173 PBL 40555 (3-479)
Lushbaugh, C. C.
Pathology of poisoning with dichlorodimethyl-methylamine. Progress report, Jan 12, 1943. Feb 1943.
12p tables, graphs. MI \$1.00 Ph \$1.00.
- OSRD 1174 PBL 5226 (1-349)
Weith, A. J., and Turkington, V. H.
Progress report on "Protective coatings for ship bottoms," to December 1, 1942. 1943.
14p Ph \$1.00 MI \$1.50.
- OSRD 1176 PBL 15620 (1-1035)
Latimer, W. H.
The "Pancake" effect in gas clouds. Progress report. Feb 1943.
22p graphs, tabs. MI \$1.50 Ph \$2.00.
- OSRD 1178 PBL 22480 (1-1591)
Chilton, T. H., and Lapple, C. E.
Removal of dust from air supplied to aircraft engines. Final report, Jan 22, 1943. Feb 1943.
92p charts, drawings, graphs, photos. MI \$1.00 Ph \$7.00.
- OSRD 1179 PBL 33264 (3-25)
Lampson, C. W.
Cable compensation for piezoelectric gages. Jan 1943.
9p graphs. MI \$1.00 Ph \$1.00.
- OSRD 1180 PBL 61009 (5-27)
U. S. National Defense Research Committee
Effect of change of power on stereoscopic range finder performance. (Bound with: Comparisons of precision at 12 and 24 power of observations taken with the MI height finder for fixed ground targets and moving aerial targets, by Merrill H. Flood.) Jan 1943.
22p graphs, tables. MI \$1.00 Ph \$2.00.
- OSRD 1184 PBL 31039 (2-871)
Foldy, L. L.
Low frequency calibration technique for underwater sound instruments. Jan 1943.
31p diags, graphs. MI \$1.00 Ph \$3.00.
- OSRD 1187 PBL 25413 (2-228)
Studebaker Corp., South Bend, Ind.
Cargo carrier, light, T-15. 1942-43.
PB Pages MI Ph
25413 75 \$2.00 \$5.00
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- OSRD 1192 PBA 18869 (2-245)
Elderfield, R. C.
The nitration of benzene and toluene in the absence of sulfuric acid according to a process submitted by the Autoxygen Company. Final report. Feb 1943.
14p diags, tables. MI \$1.50 Ph \$1.00.
- OSRD 1193 PBA 15625 (1-1014)
Pierce, W. C.
An intermittent flow canister test machine. Progress report. Jan 1943.
22p tabs, graphs, diags. MI \$1.50 Ph \$2.00.
- OSRD 1195 PBA 30747 (2-556)
Whitmore, F. C., and Aston, J. C.
Specific conductance measurements of ammonium nitrate-nitric acid, water mixtures. Progress report. Feb 1943.
18p tables. MI \$1.00 Ph \$2.00.
- OSRD 1202 PBL 4632 (1-404)
Kraus, Charles A.
Sensitized celluloid fire leaves. 1943.
39p MI \$1.50 Ph \$3.00.
- OSRD 1203 PBL 34119 (3-122)
U. S. National Defense Research Committee
Learning rate and training program for stereoscopic range finder observers. Report to the services No. 48: Div 7, Fire Control. Feb 1943.
30p tables, graphs. MI \$1.00 Ph \$2.00.
- OSRD 1204 PBL 21117 (1-1497)
Bohnenblust, H. F., and others
Graphical solutions for problems of strain propagation in tension. Jan 1943.
29p diags. MI \$1.50 Ph \$2.00.
- OSRD 1205 PBL 19514 (1-1502)
Mattoon, R. L., and Almen, J. O.
Effect of shot blasting on mechanical properties of steel (NA-115) Progress report, Oct 1, 1942-Dec 31, 1942. Feb 1943.
27p diags, charts, tables. MI \$1.50 Ph \$2.00.
- OSRD 1207 PBL 15901 (1-941)
Wells, Cyril, and Mehl, R. F.
Steel for gun tubes: Final Report, Dec 22, 1942. Part III-The effect of homogenization on the transverse ductility of wrought gun tubes. Feb 1943.
48p tables, graphs. MI \$1.50 Ph \$4.00.
- OSRD 1208 PBL 4031 (1-446)
Viteles, Morris S., and others
An outline of a four day 20mm. course of instruction 1943.
13p Ph \$1.00 MI \$1.50.
- OSRD 1209 PBL 4030 (1-446)
Viteles, Morris S., and Smith, Kinaley R.
Job analysis procedure. 1943.
24p Ph \$2.00 MI \$1.50.
- OSRD 1210 PBL 34114 (2-890)
U. S. National Defense Research Committee
Manual for selection of stereoscopic range finder operators. Feb 1943.
30p drawings. MI \$1.00 Ph \$2.00.
- OSRD 1211 PBL 5247 (1-796)
Fieser, L. F.
Vest-pocket time-delay incendiary. Feb 1943.
23p illus. MI \$1.50 Ph \$2.00.
- OSRD 1213 PBL 21128 (1-1485)
Greene, H. S.
Sterilization of used Army shoe leather. Progress report to Feb 15, 1943. Feb 1943.
14p MI \$1.50 Ph \$1.00.
- OSRD 1214 PBL 27151 (2-281)
Koehler, James S., and Seitz, Frederick
On the propagation of the plastic deformation produced by an expanding cylinder. Jan 1943.
30p graphs. MI \$1.00 Ph \$2.00.
- OSRD 1215 PBL 20174 (1-1410)
Rosenthal, P. C., and Simmons, O. W.
Study of the properties of malleable castings for use in tanks, Combat vehicles, and other military applications (OD-81): First quarterly report, Jan 15, 1943. Feb 1943.
53p photos. MI \$1.00 Ph \$4.00.
- OSRD 1216 PBL 22582 (1-1570)
Gillett, H. W.
Examination of enemy material: Fabrication methods used on a bimetal driving band on an 88 mm German projectile, and copper conservation through use of bimetal bands. Progress report, Jan 14, 1943. Feb 1943.
13p MI \$1.50 Ph \$1.00.
- OSRD 1221 PBA 5546 (1-537)
Calcott, W. S., and others
Report on "Experimental manufacture and process study of BAL" to December 1, 1942. 1942.
26p illus. Ph \$2.00 MI \$1.50.
- OSRD 1222 PBL 28613 (2-423)
Silverman, Leslie, and others
Fundamental factors in the design of protective respiratory equipment. Jan 1943.
131p photos, diags, tables. MI \$3.00 Ph \$9.00.
- OSRD 1225 PBL 31050 (2-948)
Hartmann, E.
Vertical beam pattern measurements by pulse method. Feb 1943.
32p diags, graphs. MI \$1.00 Ph \$3.00.
- OSRD 1230 PBL 31051 (2-873)
Jones, Reginald L.
Standard supersonic projectors. Jan 1943.
108p diags, tables, curves. MI \$3.00 Ph \$8.00.
- OSRD 1231 PBL 18859 (2-211)
Brinkley, S. R., Jr., and Wilson, E. R., Jr.
Calculation of detonation pressures of several explosives; Progress report. Mar 1943.
13p tables. MI \$1.50 Ph \$1.00.
- OSRD 1233 PBL 15885 (1-1251)
Lorig, C. H., and Elsea, A. R.
Effect of hydrogen, nitrogen and oxygen in armor plate (OD-38-2). Progress report, Jan 5, 1943. Feb 1943.
12p MI \$1.50 Ph \$1.00.
- OSRD 1238 PBL 8606 (1-746)
McAdams, W. H.
Dispersion of exhaust gases in sea water. Mar 1943.
195p illus. MI \$2.00 Ph \$13.00.

- OSRD 1240 PBL 19814 (2-36)
Faust, Charles L., and Lukens, Hiram S.
Silver plating of steel flatware. Advisory report, Oct 23, 1942-Jan 23, 1943. Mar 1943.
28p MI \$.50 Ph \$2.00.
- OSRD 1241 PBL 20186 (1-1412)
Stitt, J. R.
Stress relief of weldments for machining stability (00-34-2): Quarterly progress report, Dec 22, 1942. Mar 1943.
14p MI \$.50 Ph \$1.00.
- OSRD 1245 PBL 5238 (1-356)
Massachusetts Institute of Technology
Report on the M.I.T. project in high voltage radiography, for the period November 1941 to January 15, 1943. 1943.
63p illus. Ph \$5.00 MI \$1.00.
- OSRD 1246 PBL 28597 (2-440)
Adams, Walter S., and others
OSRD contract No. OEmr-101, supplement No. 2. Second progress report, Oct 1-Nov 30, 1942. 1942.
12p MI \$1.00 Ph \$1.00.
- OSRD 1248 PBA 5903 (1-495)
Cannan, R. Keith
Special report on "The inactivation of enzymes by mustard gas," to March 1, 1943. 1943.
30p Ph \$2.00 MI \$.50.
- OSRD 1250 PBL 34125 (2-890)
U. S. National Defense Research Committee
Sex differences in stereoscopic ranging and in visual tracking. Feb 1943.
14p graphs. MI \$1.00 Ph \$1.00.
- OSRD 1251 PBL 28614 (2-468)
Lewis, M. K., and Smith, J. H.
Canister development studies. Progress report. Dec 1942.
29p graphs. MI \$1.00 Ph \$2.00.
- OSRD 1254 PBA 6548 (1-594)
Du Pont de Nemours & Co.
Final report on "Stabilization of liquid sulfur trioxide." 1943.
17p MI \$.50 Ph \$2.00.
- OSRD 1258 PBL 33987 (3-124)
U. S. National Defense Research Committee
Retention of helium in range and height finders. Mar 1943.
161p photos, drawings, graphs. MI \$4.00 Ph \$11.00
- OSRD 1260 PBL 22860 (2-48)
Davis, Leverett, Jr.
The dependence of the masses of rocket components on their dimensions. Feb 1943.
29p MI \$.50 Ph \$2.00.
- OSRD 1261 PBA 6581 (1-675)
DuPont de Nemours & Company
Production of sulfur monochlorides and thionyl chloride without the use of elemental chlorine. 1943.
30p MI \$.50 Ph \$2.00.
- OSRD 1262 PBL 16482 (1-1245)
Pierce, W. M., and others
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May 1943.
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- OSRD 1463 PBL 23794 (2-640)
Muffly, Gary
Detecting and firing device for magnetic
influence ground mines. Progress report.
Jan 1943.
11p diagrs. MI \$1.50 Ph \$1.00.
- OSRD 1464 PBL 23795 (2-575)
Muffly, Gary
Detecting and firing device for magnetic
influence ground mines. Progress report.
Mar 1943.
12p photos, drawings. MI \$1.50 Ph \$1.00.
- OSRD 1467 PBL 31059 (2-893)
Pekeris, C. L.
Theory of diffraction of sound in the shadow
zone. May 1943.
70p graphs. MI \$2.00 Ph \$5.00.
- OSRD 1470 PBL 13120 (1-880)
Tuckerman, Bryant
Report on a trip to England, November 12,
1942, to February 1, 1943, including demon-
stration of the odograph, British aircraft
compasses, British vehicular compasses, British
dead-reckoning devices, and British marine
logs. Mar 1943.
18p MI \$1.50 Ph \$2.00.
- OSRD 1473 PBL 27158 (2-296)
Denues, A. R. T.
Studies of the 4.2-in. chemical mortar.
Preliminary investigations and engineering
tests to develop increased range for the
4.2-in. chemical mortar by means adapted to
immediate field application. Apr 1943.
121p MI \$3.00 Ph \$9.00.
- OSRD 1474 PBL 27341 (2-574)
Hole, M. L., and Cashman, R. J.
Thallous sulfide photoconductive cells, a
summary of service characteristics. Mar 1943.
45p graphs, illus. MI \$1.00 Ph \$3.00.
See also PB 27332.
- OSRD 1478 PBL 34118 (3-48)
U. S. National Defense Research Committee
The effects of motivation and of fatigue on
stereoscopic ranging and direct tracking.
Report to the services No. 58: Div. 7, Fire
Control. Sep 1942.
35p graphs, tables. MI \$1.00 Ph \$3.00.
- OSRD 1480 PBL 28538 (2-856)
Rochester University. Institute of Optics
Aids to night vision: Special instruments.
Mar 1943.
20p MI \$1.00 Ph \$2.00.
- OSRD 1481 PBL 28539 (2-441)
Rochester University. Institute of Optics
Aids to night vision: Extension of the
scotopic visibility curve to 3130A and to
8000A. Mar 1943.
15p drawings. MI \$1.00 Ph \$1.00.
- OSRD 1483 See OSRD 4119.
- OSRD 1484 PBL 27160 (2-300)
Mallina, R. F., and Higgins, P. T.
Firing mechanism for the 7-in. chemical
rocket projector. May 1943.
12p photos, diagrs. MI \$1.00 Ph \$1.00.

- OSRD 1485 PBL 19516 (2-35)
Ballaseyus, A. C., and Dorn, John E.
Formability of magnesium alloy sheet.
Progress report: Jan 15, 1943-Apr 10, 1943.
May 1943.
17p Mi \$1.50 Ph \$2.00.
- OSRD 1490 PBL 18468 (1-1249)
Dunetz, P. E., and others
Dynamic tests of the tensile properties
of SAE 1020 steels, Armco iron and 17ST al-
uminum alloy. May 1943.
34p curves, tables, photomicrographs.
Mi \$1.50 Ph \$3.00.
- OSRD 1491 PBL 22545 (2-164)
Egan, J. P., and others
The articulation efficiency of magnetic
and dynamic earphone used with various ear-
phone cushions in noise. Jun 1943.
68p photos, graphs, tables.
Mi \$1.00 Ph \$5.00.
- OSRD 1492 PBL 22584 (2-43)
Gillett, H. W.
Examination of enemy materiel (00-113):
A Metallurgical examination of a German 50 mm.
high explosive round. Progress report, May 12,
1943. Jun 1943.
24p photos, tables. Mi \$1.50 Ph \$2.00.
- OSRD 1493 PBL 5222 (1-486)
Kerst, D. W.
3 to 20 million volt radiography. 1943.
4p Ph \$1.00 Mi \$1.50.
- OSRD 1494 PBL 40537 (3-518)
Clarke, George L.
Make visibility and its suppression.
Final report. Mar 1943.
23p photos. Mi \$1.00 Ph \$2.00.
- OSRD 1495 PBL 5223 (1-356)
Massachusetts Institute of Technology. Radia-
tion Laboratory
Project in high voltage radiography for
the period January 15 to June 15, 1943. 1943.
27p illus. Ph \$2.00 Mi \$1.50.
- OSRD 1496 See OSRD 4052.
- OSRD 1498 PBL 20829 (1-1347)
Hawks, Douglas, Jr.
A monograph on methods of making and
inspecting thread plug and ring gages. Apr 1943.
147p diagrs. Mi \$1.50 Ph \$10.00.
- OSRD 1499 PBL 22585 (1-1578)
Grenell, L. H., and others
Examination of enemy materiel (00-113):
Chemical and metallurgical examination of
three German bomb fragments. Progress re-
port, May 17, 1943. Jun 1943.
8p photos. Mi \$1.50 Ph \$1.00.
- OSRD 1500 PBL 22586 (1-1578)
Gillett, H. W., and others
Examination of enemy materiel (00-113):
A metallurgical examination of a Japanese
75 mm. high explosive shell. Progress re-
port, May 14, 1943. Jun 1943.
17p photos, tables. Mi \$1.50 Ph \$2.00.
- OSRD 1501 PBL 22587 (2-43)
Grenell, L. H., and others
Examination of enemy materiel (00-113):
A metallurgical examination of a German
Gerlich armor piercing shell. Progress re-
port, May 15, 1943. Jun 1943.
13p photos. Mi \$1.50 Ph \$1.00.
- OSRD 1502 PBL 4652 (1-323)
Thompson, Norman J., and Blair, Edwin A.
Evaluation of incendiary bombs in
furnished rooms.
42p illus. Ph \$3.00 Mi \$1.50.
- OSRD 1503 PBL 28615 (2-544)
Pigford, R. L., and Tepe, J. B.
Fragmentation of liquids. Progress re-
port. Apr 1943.
59p Mi \$2.00 Ph \$4.00.
- OSRD 1504 PBA 6527 (1-681)
Gilman, Henry
Progress report on "Thallium compounds."
1943.
33p Mi \$1.50 Ph \$3.00.
- OSRD 1505 PBL 32664 (2-828)
Mollard, George P.
Factors affecting long distance sound
transmission in sea water, a study of radio
acoustic ranges from data taken by the U. S.
Coast and Geodetic Survey. Mar 1943.
27p charts, diagrs, graphs, tables.
Mi \$2.00 Ph \$5.00.
- OSRD 1507 PBL 8609 (1-603)
Aston, J. G., and others
Heats of vaporization O_2 - N_2 . 1943.
30p illus. Mi \$1.50 Ph \$2.00.
- OSRD 1510 PBL 30761 (2-606)
Brinkley, Stuart R., Jr., and Wilson, E. Bright,
Jr.
Calculation of the detonation proper-
ties of some service explosives. Progress
report. Jun 1943.
13p tables. Mi \$1.00 Ph \$1.00.
- OSRD 1513 PBL 27295 (2-560)
Gilbert, J. J.
Trial of wire laying by aircraft. May 1943.
31p diagrs, photos. Mi \$1.00 Ph \$3.00.
- OSRD 1514 PBL 16475 (1-1322)
Gillett, H. W., and others
Flash welding of alloy steels for ord-
nance (00-86): Progress report, Apr 15,
1942 to Apr 15, 1943. Jun 1943.
69p diagrs, photos, tables.
Mi \$1.00 Ph \$5.00.
- OSRD 1516 PBA 6545 (2-889)
Woodhouse, John C.
Behavior of chemical agents M-1, NS, MS,
and FS upon storage in contact with Monel
metal. 1943.
9p Ph \$1.00 Mi \$1.50.
- OSRD 1517 PBA 6528 (1-681)
Gilman, Henry
Progress report on "Organo lead com-
pounds as sternulators." Jun 1943.
35p Mi \$1.50 Ph \$3.00.
- OSRD 1518 PBL 27150 (2-300)
Reynolds, George T.
Small charge air blast experiments.
Jun 1943.
23p graphs. Mi \$1.00 Ph \$2.00.
- OSRD 1519 PBL 27145 (2-530)
Reynolds, George T.
A preliminary study of plane shock
waves formed by bursting diaphragms in
a tube. Jun 1943.
30p diagrs, graphs, tables.
Mi \$1.00 Ph \$2.00.
- OSRD 1520 PBL 24892 (2-215)
Office of Scientific Research and Development
Corrosion-resistant coatings for chem-
ical munitions. Progress report. Jun 1943.
14p tab. Mi \$1.50 Ph \$1.00.
- OSRD 1522 PBL 24890 (2-298)
Hill, G. Albert, and Clarke, R. G.
Underwater flares. Progress report.
Jun 1943.
26p curves, tables. Mi \$1.50 Ph \$2.00.
- OSRD 1523 PBL 15895 (1-937)
Erikson, E. L., and Hansen, H. M.
Fatigue strength of selected gun steels
under combined stresses: Results of combined
bending and torsion fatigue tests on SAE X4340
steel; final report. Jun 1943.
19p Mi \$1.50 Ph \$2.00.
- OSRD 1524 PBL 22546 (2-165)
Nichols, Rudolph H., Jr., and others
National Defense Research Committee:
Project SC-48, reports No. C-1 to C-29,
and C-31, on interphone equipment, Mar 18,
1943 to Jun 30, 1944. 1943-44.
Graphs.
- | PB | OSRD Series | Microfilm | Photostat |
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| 22546 | 1524 | \$1.50 | \$9.00 |
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| 22554 | 3683 | 2.50 | 15.00 |
| 22890 | 3905 | 2.00 | 12.00 |
- OSRD 1525 PBL 19813 (1-1523)
Lewis, Dartrey
The corrosion fatigue failure of air-
craft control cables (M-101): The effect of
metallic coatings and lubricants on fatigue
properties of aircraft cables. Progress
report 2, Nov 1, 1942-Apr 30, 1943. Jun 1943.
107p photos, drawings, curves.
Mi \$1.50 Ph \$8.00.
- OSRD 1526 PBL 40557 (3-482)
Johnston, Harold S.
Micrometeorological observations at United
States Army smoke tests in the Los Angeles
area, Mar 17, 18, and 19 and Apr 20, 1943.
Progress report, May 3, 1943. Jun 1943.
8p tables. Mi \$1.00 Ph \$1.00.
- OSRD 1528 PBL 22547 (2-165)
Ericson, Harold L., and others
I. A. F. factors in portable radio equipment;
II. Redesign of SCR-274N and ATA modulators;
III. Performance of Eaves sound projector. Jun
1943.
51p diagrs, graphs, photos.
Mi \$1.00 Ph \$4.00.
- OSRD 1529 PBA 6529 (1-41)
Adkins, Homer
Progress report on "Preparation of esters of
L, L-Dibromo or Dichloro Dibasic Acid." 1943.
11p Mi \$1.50 Ph \$1.00.
- OSRD 1532 PBL 27152 (2-300)
Reynolds, George T.
Charge orientation tests. Jun 1943.
24p diagrs, tables. Mi \$1.00 Ph \$2.00.
- OSRD 1533 PBA 6547 (1-476)
Biswell, C. B., and others
Preliminary study of a plant to pro-
duce BAL (capacity, 200,000 lb. per year). 1943.
38p Mi \$1.50 Ph \$3.00.

- OSRD 1536 PBL 13303 (1-901)
Dulikien, Harold, and others
Averages, standard deviations, and inter-correlations of Navy aptitude tests. Jun 1943.
5p MI \$1.00 Ph \$4.00.
- OSRD 1538 PBL 40611 (3-470)
Rajchman, Jan
RCA computron. Final report. Mar 1943.
129p photos, drawings, diagrs. MI \$3.00
Ph \$10.00.
- OSRD 1539 PBL 8347 (1-606)
Smith, A. M., and Catterall, M. E.
Properties of Salcomine and Ethomine and the separation of atmospheric oxygen therewith. 1943.
139p illus. MI \$1.50 Ph \$10.00.
- OSRD 1543 PBL 34144 (2-620)
Beranek, Leo L., and others
Principles of sound control in airplanes. 1944.
395p graphs, tables, charts, diagrs. MI \$8.00 Ph \$27.00.
(For advance summary see PB 5506.)
- OSRD 1545 See OSRD 1524.
- OSRD 1546 See OSRD 3143.
- OSRD 1547 PBA 6807 (1-757)
McReynolds, J. P.
"Determination of arsenicals by a dichromate volumetric method." Progress report to May 25, 1943. Jun 1943.
8p MI \$1.50 Ph \$1.00.
- OSRD 1548 PBA 6532 (1-751)
McReynolds, J. P.
Examination of the thiocarbazonates for use in the colorimetric determination of arsenicals. Jun 1943.
29p illus. MI \$1.50 Ph \$2.00.
- OSRD 1549 PBL 15896 (1-937)
Fetters, K. L., and others
Improvement in gun steel ingot practice; progress report. Jun 1943.
92p graphs, tables, photos. MI \$1.00
Ph \$7.00.
- OSRD 1550 PBL 15854 (1-1007)
Paschke, Victor
Evaluation of weldability by correlation of electrical and heat constants: determination of cooling curves and analysis of heat transfer in ARC welding of plates. Final report. Jun 1943.
58p diagrs, graphs. MI \$1.00 Ph \$4.00.
- OSRD 1552 PBL 31037 (2-871)
Foldy, L. L.
Theory of passive linear electromechanical transducers. Jun 1943.
53p MI \$2.00 Ph \$4.00.
- OSRD 1555 PBL 39716 (3-425)
Christensen, R. J., and others
Volume reverberation, scattering and attenuation vs. frequency. Apr 1943.
35p graphs, table. MI \$1.00 Ph \$3.00.
- OSRD 1558 PBL 68911 (5-692)
Correy, Robert B., and others
Investigations of double-base powders, spectrophotometric studies. 11. Jun 1943.
15p graphs, tables. MI \$1.00 Ph \$1.00.
- OSRD 1559 PBL 25382 (2-374)
Durand, M. F., and Kenerson, M. M.
Aircraft brakes. Final report. May 1943.
16p MI \$1.00 Ph \$2.00.
- OSRD 1564 PBL 22589 (1-1569)
Gillett, M. M., and others
Examination of enemy materiel (00-113): A chemical and metallurgical examination of a German caltrap or tire puncture. Progress report, May 25, 1943. Jul 1943.
8p drawings, photos. MI \$1.50 Ph \$1.00.
- OSRD 1565 PBL 22588 (2-44)
Gronell, L. M., and others
Examination of enemy materiel (00-113): A metallurgical examination of two German 37 mm. high-explosive shells. Progress report, May 15, 1943. Jul 1943.
19p MI \$1.50 Ph \$2.00.
- OSRD 1566 PBL 5216 (1-413)
Kerst, S. M.
Report on 3 to 20 million volt radiography. n.d.
8p Ph \$1.00 MI \$1.50.
- OSRD 1567 PBL 32196 (2-825)
Courant, R., and Friedrichs, K.
Interaction of shock and rarefaction waves in one-dimensional motion. Progress report. Jul 1943.
66p diagr. MI \$2.00 Ph \$5.00.
See also PB 32719.
- OSRD 1568 PBA 6531 (1-750)
Wolfram, M. L.
Progress report on "1. The preparation and properties of some nitro-olefine derivatives. 11. The Determination of vapor pressures and crystal densities of organic compounds." Jul 1943.
27p illus. MI \$1.50 Ph \$2.00.
- OSRD 1569 PBL 15644 (1-1123)
Blacet, F. E., and Roof, J. G.
Persistence experiments with sulfur dioxide in a wooded area. Progress report to May 31, 1943. Jun 1943.
16p map, tables. MI \$1.50 Ph \$2.00.
- OSRD 1570 PBA 6811 (1-757)
Bartlett, Paul D.
"The B-chloroethylamines; a further kinetic analysis of the dimerization and hydrolysis of methylbis-B-chloroethylamine; further observations on diethyl-B-chloroethylamine and tris-B-chloroethylamine." Jun 1943.
34p MI \$1.50 Ph \$3.00.
- OSRD 1571 PBL 22549 (1-1569)
Abrams, M. R., and others
Collected informal communications on the basic audibility of English words for use as oral codes, alphabetic equivalents, etc. Jul 1943.
166p MI \$2.00 Ph \$12.00.
- OSRD 1572 PBL 22550 (2-86)
Egan, J. P., and others
Collected informal communications on articulation tests of interphone equipment. Jul 1943.
95p tables, graphs. MI \$1.00 Ph \$7.00.
- OSRD 1573 PBL 33382 (2-971)
Foldy, L. L.
- Advantages of aluminum as a dome material—
theoretical study. Jun 1943.
17p graphs, drawings. MI \$1.00 Ph \$2.00.
- OSRD 1575 See OSRD 4119.
- OSRD 1576 PBA 6808 (1-533)
McReynolds, J. P.
Detection of mustard by hot wire or furnace oxidation and rapid analytical determination of arsenicals by reaction with thiocarbazonates or by oxidation with dichromate to July 1, 1943. 1943.
18p illus. MI \$1.50 Ph \$2.00.
- OSRD 1577 PBA 30744 (2-785)
Kincaid, J. F., and St. George, R. C.
The 32nd transition of ammonium nitrate. Progress report, Jun 15, 1943. Jul 1943.
17p tables. MI \$1.00 Ph \$2.00.
- OSRD 1578 PBL 18857 (2-135)
Kincaid, J. F., and Dalley, B. P.
Thermochemical examination of a number of commercial and experimental propellants: Progress report, to May 15, 1943. Jul 1943.
15p MI \$1.50 Ph \$1.00.
- OSRD 1579 PBL 9402 (1-505)
Hetherington, C. L., and Catterall, M. E.
Progress report on "Special engineering systems utilizing chelate chemical absorbents for oxygen production." 1943.
152p illus. MI \$2.00 Ph \$11.00.
- OSRD 1580 PBA 8602 (1-607)
Weinkauff, O. J., and Kyrides, L. P.
Fuel report on
"Process for producing o-Ethaven." 1943.
15p MI \$1.50 Ph \$1.00.
- OSRD 1581 PBL 8607 (1-830)
Aston, J. G., and others
Vapor-liquid equilibrium data for the system Argon-Oxygen. Progress Report to May 15, 1943. 1943.
44p illus. MI \$1.50 Ph \$3.00.
- OSRD 1582 PBL 12088 (1-881)
National Defense Research Committee
Odographs (Course plotters or deadreckoning tracers). Jul 1943.
17p MI \$1.50 Ph \$2.00.
- OSRD 1583 PBA 6551 (1-533)
Price, C. C., and Buswell, A. M.
Progress report on "The detection of certain arsenical agents in water by means of dibenzylthiocarbazonate," to May 25, 1943. 1943.
9p MI \$1.50 Ph \$1.00.
- OSRD 1585 PBL 27347 (2-578)
Van Lear, G. A., Jr.
Notes on generalized photometry, with particular application to the near infrared. Revised schematic version. Jun 1943.
7p tables. MI \$1.00 Ph \$1.00.
- OSRD 1588 PBL 20290 (2-47)
Columbia University. Div of War Research. Statistical Research Group
Two memoranda on double dichotomies: Statistical analysis of double dichotomies (1-18-3AE), and number of trials necessary for comparing percentages (3-6-3AE). Mar 1943.
32p graph. MI \$1.50 Ph \$3.00.

- OSRD 1589 PBL 30772 (2-591)
Simmons, O. W., and others
Study of the properties of malleable castings for use in tanks, combat vehicles, and other military applications (00-81). Final report, Sep 1942-Jun 30, 1943. Jul 1943.
67p MI \$2.00 Ph \$5.00.
See PB 20174 for 1st quarterly report.
- OSRD 1590 PBL 27164 (2-240)
Prosen, Edward J., and Gilmont, Roger
Heats of combustion and formation of diethylphthalate, dibutylphthalate, dinitrotoluene, diethyldiphenylurea and nitroguanidine. Jul 1943.
14p MI \$1.00 Ph \$1.00.
- OSRD 1591 PBL 4026 (1-446)
Viteles, M. S., and others
The 40 mm. gun training and indoctrination of crew. 1943.
7p Ph \$1.00 MI \$5.00.
- OSRD 1592 PBL 20830 (1-1356)
Mead, Leonard C.
Research and development work: Summary report from Aug 1, 1942 to Jul 1, 1943. Jun 1943.
15p photos, diagr. MI \$5.00 Ph \$1.00.
- OSRD 1594 PBA 6540 (1-948)
Dupont de Nemours, E. I., and Co., Jackson Laboratory
The preparation of ethyldichloroarsine on a pilot plant scale. 1943.
8p MI \$5.00 Ph \$1.00.
- OSRD 1595 PBL 33370 (2-824)
Rochester University. Institute of Optics
Development of Kellner-Schmidt optical systems. I. Interim report, Jan. 1, 1943. Jun 1943.
28p drawings, graphs. MI \$1.00 Ph \$2.00.
For part II see OSRD 1597.
- OSRD 1597 PBL 33371 (2-824)
Rochester University. Institute of Optics
Development of Kellner-Schmidt optical systems. II. Fourteen inch air type Kellner-Schmidt system. Jun 1943.
7p drawings, graphs. MI \$1.00 Ph \$1.00.
For part I see OSRD 1595.
- OSRD 1598 PBL 33374 (2-824)
Rochester University. Institute of Optics
Air-surface vessel identification systems II and III Interim Reports, Mar 1, 1943. Jun 1943.
Photographs, graphs, drawings.

	PB	OSRD	MI	Ph
Part I	33374	1598	11p	\$1.00 \$1.00
Part II	33375	1599	40p	1.00 3.00
- OSRD 1599 See OSRD 1598
- OSRD 1608 PBL 58195 (4-864)
Fitzwilliam, J. M.
Development of a dirigible bomb. Eight progress report, Apr 30, 1943. Apr 1943.
97p tables, photos, graphs, diagr. MI \$2.00 Ph \$7.00.
- OSRD 1609 PBL 58196 (4-866)
Warren, B. E.
Development of a dirigible bomb. Ninth progress report, Apr 30, 1943. Apr 1943.
51p tables, graphs, diagr. MI \$2.00 Ph \$4.00.
- OSRD 1610
Godfrey, H. J.
Corrosion fatigue failure of aircraft control cables (N-101): The effect of sheave diameter on the fatigue life of aircraft cables. Progress report 3, Nov 1, 1942-Apr 30, 1943. Jul 1943.
36p drawings, tables, curves. MI \$5.00 Ph \$3.00.
See PB 19813, 19815, 19821, 19822, 19831, 19832, 19835.
- OSRD 1613 PBL 13119 (1-770)
Dalke, J. L.
Report on installation of odograph in T-15 cargo carrier, January 6, to March 15, 1943. Jun 1943.
21p illus. MI \$5.00 Ph \$2.00.
- OSRD 1614 PBL 13118 (1-806)
Barry, James M.
Report on tests of odograph in halftrack, Fort Belvoir, Va., April 8, 1943 to May 5, 1943. Jun 1943.
17p MI \$5.00 Ph \$2.00.
- OSRD 1615 PBL 24884 (2-249)
Brush Development Co., Cleveland, Ohio
Fourth report on the development of a high frequency strain analyzer. Jun 1943.
5p MI \$5.00 Ph \$1.00.
- OSRD 1616 PBL 3388 (1-604)
Field, E., and others
Final report on "Salomine as an absorbent for separating atmospheric oxygen." 1943.
83p MI \$1.00 Ph \$6.00.
- OSRD 1617 PBL 9405 (1-606)
Lonsdale, J. P., and Catterall, M. E.
Progress report on "The regenerative chemical system for oxygen production on board aircraft." 1943.
60p illus. MI \$1.00 Ph \$4.00.
- OSRD 1629 PBL 21135 (1-1420)
Harris, Cyril M.
A listening type acoustical firing unit for controlled mine warfare, type TSE18. Jun 1943.
30p photos, diagr, graphs. MI \$5.00 Ph \$2.00.
- OSRD 1629 Supp. PBL 21136 (1-1420)
Harris, Cyril M.
Type TSE18—Production model: a listening type acoustical firing unit for controlled mine warfare. Sep 1943.
17p MI \$5.00 Ph \$2.00.
- OSRD 1630 PBA 6806 (1-486)
Davis, Selby R., and others
Progress report on A study of the reaction between mustard gas and proteins to June 7, 1943. 1943.
20p MI \$5.00 Ph \$2.00.
- OSRD 1631 PBA 6519 (1-696)
Rotariu, G. J.
Toxicity studies of substituted halogenated aliphatic hydrocarbons. Jun 1943.
11p MI \$5.00 Ph \$1.00.
- OSRD 1633 PBL 16432 (1-1022)
Anderson, H. V., and Tucker, C. M.
Residual stresses in cold-drawn nonferrous alloys: An X-ray study. Final report, part I, Dec 15, 1941-Jul 1, 1943. Jul 1943.
77p graphs. MI \$1.00 Ph \$6.00.
- OSRD 1635 PBL 22590 (1-1569)
Gilllett, H. M.
Examination of enemy material (00-113): A chemical and metallurgical examination of a German needle bearing. Progress report 10, Jun 3, 1943. Jul 1943.
13p photos. MI \$5.00 Ph \$1.00.
- OSRD 1636 PBL 15855 (2-25)
Feild, A. L., and others
Development of armor welding electrodes (00-36-2): Relation of the composition of Austenitic (20 Cr-10 Ni) electrodes to the physical and ballistic properties of armor weldments. Progress report, Jun 15, 1943. Jul 1943.
37p photos, tables, diagr. MI \$5.00 Ph \$3.00.
See also PB 15842 for Part II.
- OSRD 1637 PBL 34784 (3-47)
Kappauf, M. E.
The design and construction of a weight finder sunshade. Jun 1943.
10p drawings. MI \$1.00 Ph \$1.00.
- OSRD 1638 PBL 27299 (2-612)
Fisher, Harold M., and Imus, Henry A.
The adjustment of the M2 trainer for standard testing. Jun 1943.
7p sketches. MI \$1.00 Ph \$1.00.
- OSRD 1641 PBL 18474 (1-1248)
Dunwo, P. E., and others
The influence of impact velocity on the tensile properties of class B armor plate, heat-treated alloy steels and stainless steel. Jul 1943.
63p diagr, graphs. MI \$1.00 Ph \$5.00.
- OSRD 1652 PBM 6816 (1-559)
Lazier, M. Z.
Progress report on "CMR-NDRS joint project on BAL ointment." Report on the work of the pharmaceutical and chemical subcommittee for the period January through April, 1943. 1943.
84p MI \$1.00 Ph \$6.00.
- OSRD 1656 PBL 19552 (1-1413)
Thompson, J. G., and others
Beryllium-aluminum alloys for engine parts: Final report, May 1943.
30p MI \$5.00 Ph \$2.00.
- OSRD 1657 PBL 22899 (2-262)
Mikhailapov, G. S., and Humberstone, J. H.
Survey of activity relative to the application of large diameter austenitic electrodes to the welding of armor. Advisory report. Jul 1943.
26p tables. MI \$5.00 Ph \$2.00.
- OSRD 1659 PBL 27146 (2-816)
Germer, L. H., and others
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28p photos, graphs, tables, drawings.
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The discrimination of transducers against reverberation. May 1943.
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An anti-aircraft computing sight. Aug 1943.
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Sage, C. G.
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An investigation of the metallographic and
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A survey of various German ammunition carriers.
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Water tunnel tests of the 60 mm mortar
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Heat resisting metals for gas turbine parts
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A meter for the calibration of breather
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Wallace, R. L., Jr., and others
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Campbell, Kenneth M.
The addition of oxides of nitrogen to ethyl-
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Hoggins, M. H.
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Hack, Clifford, and Diehl, Harvey
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The analysis of elastic structures acted
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Scheffé, Henry
Theory of probability with applications.
Feb 1944.
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Johnson, Martin M.
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A study in training classification petty
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McCormick, M. M., and Madansky, L.
The high intensity flash lamp, type 10, de-
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23p diagrs, drawings, graphs, photos. MI
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Lorig, C. H., and others
An analysis of heat flow in metal molds for
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Report on the magnetic disc plating derived
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Buehl, Walter M., and Seubert, John E.
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Elliot, D. C.
Design and development of large experimental
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Yoe, John H., and others
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Yoe, John H.
Studies in carbon monoxide detection, Final
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Loder, D. J.
Progress report on "New methods for synthe-
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Exploratory studies on the synthesis of Eth-
anolamines from Formaldehyde and hydrogen cya-
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Metallurgical study of two samples of Japanese
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A new electrolytic selenium photocell. Jun
1943.
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Taylor, Howard F.
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(00-108). Final report Oct 1943.
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Hildorf, W. G., and others
Control of basic open hearth practice in
manufacture of wrought gun tubes (00-34-3).
May 1-Jul 31, 1943. Oct 1943.
50p charts, graphs, tables. MI \$1.50 Ph \$4.00.
- OSRD 1973 PBL 22908 (2-170)
Waterman, T. H.
Flight and laboratory tests of various mi-
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titudes. Dec 1943.
36p graphs, photos, tables. MI \$1.50 Ph \$3.00.
- OSRD 1974 PBL 22909 (2-165)
Kryter, K. D., and Ross, D. A.
Articulation-test comparisons of six Signal
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Mar 1944.
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- OSRD 1975 PBL 22911 (2-325)
Licklider, J. C. R., and Ross, D. A.
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Articulation tests of standard and modified
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Pierce, M. C., and others
Apparatus for evaluating the maximum inspiratory and expiratory resistances of gas masks during wearing. Progress report, Oct 1, 1943. Nov 1943.
6p drawings, table. MI \$1.00 Ph \$1.00.
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Yost, D. M., and others
A study of smoke clouds in a coastal area: field experiments near Brownsville, Tex. (Progress report) to September 1, 1943. Nov 1943.
31p map, tabs, graphs. MI \$.50 Ph \$3.00.
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Compton, R. D., and DeGroot, H.
Motion picture photography of television images. Final report. Apr 1943.
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Mella, Cyril, and Mehl, R. F.
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Wood, R. M.
The interaction of shock waves. Progress report. Nov 1943.
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Compensation of AN/ASQ-2 installation in Army B-18 bomber No. 7470. Nov 1943.
29p graphs, drawing. MI \$1.00 Ph \$2.00.
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Kassel, Louis S., and Gerald, Curtis, F.
Purification of Levenstein mustard by crystal fractionation. Final report, Oct 1943. Nov 1943.
57p tables, graphs. MI \$2.00 Ph \$4.00.
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Grenell, L. H., and others
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14p photos. MI \$.50 Ph \$1.00.
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Hill, G. A., and Clarke, R. G.
Improvement of photoflash bombs: Progress report. Nov 1943.
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Office of Scientific Research and Development.
The preparation of nitroparaffins: Final report: Dec 11, 1942. Nov 1943.
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- OSRD 2017 PBL 32724 (3-167)
Heese, G. E.
Report on two field demonstrations showing the use of certain infrared equipment for night amphibious operations. Apr 1943.
28p maps, photos. MI \$1.00 Ph \$2.00.
- OSRD 2018 PBL 18883 (1-1578)
Hyers, D. H.
On the static and dynamic plastic bending of plates. Nov 1943.
26p graphs. MI \$.50 Ph \$2.00.
- OSRD 2020 PBL 33378 (2-938)
Barnett, C. E., and Fundies, G. M.
Luminescent markings for ammunition and other supply cases to provide legibility under blackout conditions. Progress report, Nov 23, 1942-Mar 25, 1943. Mar 1943.
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- OSRD 2021 PBL 33379 (2-1008)
New Jersey Zinc Co. of Pennsylvania
Two interim reports on luminescent materials: Report No. I. Usefulness of luminescent markings in the unloading of a ship under blackout conditions; Feb 4, 1943, by C. E. Barnett; Report No. II. Visual thresholds at low brightness, by L. J. Reimert. Progress report. Jan 25-Feb 28, 1943. Feb 1943.
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Kirkwood, John G., and others
The pressure wave produced by an underwater explosion: Part V. Progress report. Nov 1943.
222p curves, tables. MI \$5.00 Ph \$15.00.
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Rice, O. K., and Ginell, Robert
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- OSRD 2024 PBL 34753 (2-895)
Stoker, J. J.
Strength and compressibility of pads of tubular fibres to be used in clothing. Dec 1943.
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Parlin, Ransom B., and others
The theory of explosion initiation. Progress report. Nov 1943.
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U.S. Office of Scientific Research and Development.
Two reports on visibility of ultraviolet light sources and ranges of autocollimating reflectors: Report No. 1. Visibility of ultraviolet light sources and ranges of fluorescent retrodirectional autocollimating devices, by L. J. Reimert. Progress report, Mar 12-Apr 12, 1943; Report No. 2, Report submitted by the Institute of Optics, University of Rochester (glass and plastic collimators). Mar 30, 1943. Apr 1943.
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Barnett, C. E.
Effect of temperature on the phosphorescence of alkaline earth sulfide phosphors. Progress report. Nov 6, 1942. May 1943.
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Columbia University Airborne Instrument Laboratory
AN/ASQ-1 magnetic airborne detection equipment. Oct 1943.
59p photos, illus, graphs, tab.
MI \$2.00 Ph \$4.00.
- OSRD 2036 PBA 4193 (1-316)
Broughton, G., and Byfield, A.
The manufacture, properties and testing of napalm soaps. (For supplement see PB-5477.)
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The manufacture, properties and testing of Napalm soaps. 1944.
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Egan, J. P., and others
Microphone and headset studies I. Nov 1943.
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Egan, J. P., and others
Studies on the effect of noise on speech communication. Nov 1943.
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Strong, John
Sensitivities of infrared detectors. Sep 1943.
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Made, E., and Townsend, C. L.
Improvements to television systems, under NDR contract ODM-sr-441 (as amended). Final report. Jun 1943.
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Hutchens, John O., and others
Improved micro-apparatus for controlled toxicity determinations. Progress report, Oct 4, 1943. Nov 1943.
20p photos, diagrs. MI \$1.00 Ph \$2.00.
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- OSRD 2048 PBL 4647 (1-323)
Thompson, Norman J., and Dakin, Morrill
Incendiary bomb fillings for industrial targets. 1943.
46p illus. Ph \$4.00 MI \$.50.
- OSRD 2050 PBA 32203 (2-792)
Rodebush, M. H., and others
Filter penetration by aerosols of very small particle size. Progress report. Sep 1, 1943. Nov 1943.
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MI \$1.00 Ph \$2.00.
- OSRD 2055 PBL 30750 (2-552)
Blomquist, Alfred T.
The crystallography of Halate (ethylenedinitramine). Final report. Nov 1943.
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Snyder, M. R.
Final report on "The resolution of BAL" to September, 1943. 1943.
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Peer, J. R., and others
Progress report on "M-67 bomb modified for improved dispersion of H." 1943.
47p illus. MI \$1.50 Ph \$4.00.
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U. S. National Defense Research Committee
Comparative study of internal adjuster targets of range and height finders. Nov 1943.
48p diagr, graphs, tables. MI \$1.00 Ph \$4.00.
- OSRD 2062 PBL 19496 (1-1282)
Dorn, J. E., and Ballaseyus, A. C.
Formability of magnesium alloy sheet: Final report. Part I, Elevated temperature variable speed tensile tests on magnesium alloys (NA-146). Sep 24, 1943. Nov 1943.
130p photos, tables, diagr. MI \$1.50 Ph \$0.00.
- OSRD 2063 PBL 19541 (1-1501)
Hunter, M. A., and others
Physical and stress corrosion properties of magnesium alloy sheet (NA-147). Nov 1943.
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- OSRD 2064 PBL 22802 (1-1486)
Granell, L. H., and others
Examination of enemy material (OD-113): Metallurgical examination of Japanese roller-bearing assemblies from aircraft engine "Zuka." Progress report 23, Nov 1, 1943. Nov. 1943.
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Williams, R. S.
Metallurgical studies and surveys of Army Quartermaster Corps supplies: Part I—Problems under investigation for the Office of the Quartermaster General for the period Feb 1, 1943 to Aug 1, 1943; Part II—Camouflage of mess gear (QC-25). Final report. Nov 1943.
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Rose, A.
Improved sensitivity of television equipment. Progress report, Aug-Sep 1943. Sep 1943.
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For final report see PB 43036.
- OSRD 2075 PBL 43038 (3-865)
Kell, R. D.
Improved sensitivity of television equipment. Progress report No. 2, Aug 1, -Oct 1, 1943. Oct 1943.
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See also PB 43037, PB 43038.
- OSRD 2076 PBL 19547 (1-1487)
Barrett, Charles S., and others
Deformation characteristics of magnesium alloys (NA-148). First quarterly progress report, Jun 15 to Sep 15, 1943. Nov 1943.
37p MI \$1.50 Ph \$3.00.
- OSRD 2077 PBL 21125 (2-22)
O'Flaherty, Fred, and others
Improvement of leather for military uses. Progress report to Mar 15, 1943. Nov 1943.
188p tables, graphs. MI \$2.00 Ph \$14.00.
- OSRD 2078 PBL 6007 (1-561)
Knapp, Robert T.
Water tunnel tests of the 15 cm. German spinner rocket. 1943.
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Formability of magnesium alloy sheet: Part II, Forming of bends on the Guerin press (NA-146). Final report. Nov 1943.
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- OSRD 2081 PBL 63630 (5-290)
Smith, Nicholas, M., Jr.
A vertical step-sweep circuit for the cathode ray oscillograph. Nov 1943.
11p diagr, graphs. MI \$1.00 Ph \$1.00.
- OSRD 2082 PBL 63628 (5-210)
Moher, Don R.
Preparation of chromium by the thermal decomposition of chromium iodide. Nov 1943.
1p photo, drawings, table. MI \$1.00 Ph \$1.00.
- OSRD 2084 PBL 27540 (2-107)
Bell Telephone Laboratories, New York
Magnetic airborne detector, investigation of magnetic noise. Oct 1943.
47p graphs, diagr, drawings. MI \$1.00 Ph \$4.00.
- OSRD 2085 PBL 27162 (2-300)
Roser, J. Barkley
Relations between a rocket and its equivalent shell. Nov 1943.
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- OSRD 2087 PBL 27296 (2-611)
Adams, J. K., and others
The relationship of visual acuity to acuity of stereoscopic vision. Sep 1943.
23p tables. MI \$1.00 Ph \$2.00.
- OSRD 2089 PBL 22461 (2-83)
National Research Corporation, Boston, Mass.
Report of lithium research, Mar 15, 1943-Oct 18, 1943. Dec 1943.
19p diagr. MI \$1.50 Ph \$2.00.
- OSRD 2091 PBL 2582 (1-188)
Blake, Charles H., and Russell, Henry D.
Final report on insects and other animals of interest to the Quartermaster Corps. 1943.
356p MI \$4.00 Ph \$24.00.
- OSRD 2094 PBL 12145 (1-906)
Bakelite Corp., Bloomfield, N. J.
Protective coatings for magnesium alloys. Progress report. Dec 1943.
29p MI \$1.50 Ph \$2.00.
- OSRD 2096 PBL 18363 (1-1271)
Lindley, Donald B., and others
Use of the Philco trainer in the training of A-Scan oscilloscope operators. Oct 1943.
27p diagr, graphs. MI \$1.50 Ph \$2.00.
- OSRD 2430 PBL 34776 (2-987)
Rule, B. H.
Optical method of measuring angular changes of projectile model during entry phase. Mar 1946.
11p diagr, photos. MI \$1.00 Ph \$1.00.
- OSRD 3002 PBL 16421 (1-1013)
Grinstead, C. E.
The development and tests of an inductor compass. Nov 1943.
58p photos, diagr, maps. MI \$1.00 Ph \$4.00.
- OSRD 3003 PBL 6008 (1-565)
Knapp, Robert T.
Memorandum on water tunnel tests of the M-6, 2.36" A.T. rocket with five designs of shroud ring tail. 1943.
25p illus. MI \$1.50 Ph \$2.00.
- OSRD 3004 PBL 13317 (1-824)
Beteraon, D. A.
Factor analysis of the new United States Navy Basic Classification Test Battery. Sep 1943.
13p MI \$1.50 Ph \$1.00.
- OSRD 3005 PBL 15849 (1-1188)
Troiano, Alexander R.
An investigation of the metallographic and physical properties of new types of gun steels (OD-34-3). Progress report, Nov 15, 1943. Dec 1943.
36p photos, graphs. MI \$1.50 Ph \$3.00.
- OSRD 3006 PBL 16477 (1-1249)
Peirle, M. M., and Anderson, E. A.
Prevention of stress-corrosion cracking of cartridge brass by protective coatings or surface treatment (OD-25): Progress report, Aug 15-Nov 15, 1943. Dec 1943.
11p MI \$1.50 Ph \$1.00.
- OSRD 3007 PBL 16742 (1-1022)
Anderson, H. V., and others
Residual stresses in cold-drawn, non-ferrous alloys: An x-ray study. Progress report: Jul 1-Nov 1, 1943. Dec 1943.
32p graphs. MI \$1.50 Ph \$3.00.
- OSRD 3011 PBL 32202 (2-743)
Comings, E. M., and others
New chlorine carriers for metal chloride screening smoke mixtures. Progress report, Jul 1, 1943. Dec 1943.
61p photos, tables. MI \$2.00 Ph \$5.00.
- OSRD 3015 PBL 22603 (1-1480)
Craighead, C. M., and Gillett, H. M.
Examination of enemy material (OD-113): Metallurgical examination of German and Japanese aluminum ware. Progress report 24, Nov 15, 1943. Dec 1943.
26p tables, photos. MI \$1.50 Ph \$2.00.
- OSRD 3016 PBL 19546 (1-1486)
Barrett, Charles S., and others
Deformation characteristics of magnesium alloys (NA-148): Metallography of commercial magnesium sheet. Progress report, Dec 1, 1943.
11p MI \$1.50 Ph \$1.00.
- OSRD 3017 PBL 22604 (2-43)
Granell, L. H., and others
Examination of enemy material (OD-113): Metallurgical examination of a German MG-34 machine gun of 1941. Progress report 25, Nov 12, 1943. Dec 1943.
23p photos, tables, drawings. MI \$1.50 Ph \$2.00.
- OSRD 3018 PBL 32222 (2-801)
Sroos, Harold, and Shapiro, Hymin
Development of a chemical process for deleading gasoline. Final report. Dec 1943.
48p diagr, graphs, tables. MI \$1.00 Ph \$4.00.

- OSRD 3023 PBL 11207 (1-701)
Tearse, R. R., Jr.
Model study of the Rotafail. First report.
Dec 1943.
25p illus. MI \$.50 Ph \$2.00.
- OSRD 3025 PBL 28541 (2-358)
Mitchell, George A., and others
Modification of the Metrogon shutter to increase its speed. Final report. Nov 1943.
24p diagrs, photos, tables. MI \$1.00 Ph \$2.00.
- OSRD 3028 PBL 18884 (1-1580)
Wood, D. S., and others
The influence of specimen dimension and shape on the results of tensile impact tests. Dec 1943.
32p drawings, graphs, tables. MI \$.50 Ph \$3.00.
- OSRD 3031 PBL 20294 (2-258)
Hendelman, G. H., and others
Forced vibrations of a simple oscillator with limited displacement. Dec 1943.
18p drawings. MI \$.50 Ph \$2.00.
- OSRD 3032 PBL 20179 (1-1412)
Stitt, J. R.
Stress relief of weldments for machining stability (OD-34-2): Part I. Dec 1943.
63p MI \$1.00 Ph \$5.00.
- OSRD 3033 PBL 19517 (1-1579)
Jackson, L. R., and others
Fatigue properties of magnesium alloys and structures: Fatigue properties of magnesium alloy sheet—Part I (WA-145). Final report, Aug 31, 1943. Dec 1943.
145p photos, curves, tables. MI \$1.50 Ph \$10.00.
- OSRD 3034 PBL 15842 (1-1407)
Field, A. L., and others
Development of armor welding electrodes (OD-36-72): the effect of variations in chromium-nickel ratio and molybdenum content of Austenitic (20 CR-10 NI) electrodes on properties of armor weldments. Progress report, Nov 15, 1943. Dec 1943.
42p diagrs, photos, tables. MI \$.50 Ph \$3.00.
- OSRD 3036 PBL 50855 (4-294)
Weatherby, B. B.
Effects of subsurface detonations in earth, II. Dec 1943.
44p drawings, graphs, tables. MI \$1.00 Ph \$3.00.
- OSRD 3038 PBL 23712 (2-466)
Brillouin, Leon
On light scattering by spheres. Dec 1943.
18p MI \$.50 Ph \$2.00.
- OSRD 3039 PBL 13302 (1-900)
Conrad, Herbert S.
Item analysis of Navy aptitude tests. Dec 1943.
117p MI \$.50 Ph \$8.00.
- OSRD 3040 PBL 12181 (1-904)
Mote, F. A., and others
Results obtained from testing recruits with the New London-NJRC Questionnaire at the Newport Naval Training Station. Dec 1943.
8p MI \$.50 Ph \$1.00.
- OSRD 3042 PBL 16765 (1-1409)
Miller, R. F., and Cross H. C.
Advisory report on Survey of data on alloys developed for turbosupercharger and gas turbine applications. Dec 1943.
31p tables, diagrs. MI \$.50 Ph \$3.00.
- OSRD 3043 PBL 40534 (3-414)
Dorn, John E., and others
Properties and heat treatment of magnesium alloys (WA-144). Part V. Section I. The sensitivity of magnesium alloy sheet to drilled, reamed, and punched holes; Section II. The notch sensitivity of magnesium alloy extrusions and the influence of various factors. Final report, Nov 10, 1943. Dec 1943.
209p tables, graphs, photomicrographs. MI \$5.00 Ph \$14.00.
See also PB 40530-40533.
- OSRD 3047 PBL 31955 (2-867)
Kassel, Louis S., and others
Purification of Levenstein mustard by distillation with pentane vapor. Final report, Nov 1943. Dec 1943.
28p diagrs, tables, graphs, flow sheet. MI \$1.00 Ph \$2.00.
- OSRD 3048 PBL 15609 (1-1143)
Latimer, W. M., and others
The hot wire analyzer for gas concentrations. Progress report to November 20, 1943. Dec 1943.
21p MI \$.50 Ph \$2.00.
- OSRD 3053 PBL 22465 (2-82)
Hyland, H. G., and Hunter, C. M.
Design of plant for producing sodium hydride-aluminum mixture. Progress report. Dec 1943.
20p diagrs. MI \$.50 Ph \$2.00.
- OSRD 3055 PBL 15850 (1-1361)
Wells, Cyril, and Mohl, R. F.
Improvement in wrought gun tubes (OD-34-3). Quarterly report, Oct 15, 1943. Dec 1943.
8p MI \$.50 Ph \$1.00.
- OSRD 3056 PBL 16758 (1-1114)
Weinman, E. M., and Boegehold, A. L.
Heat treatment of national emergency steels for use in tanks, combat cars, gun mounts, and other ordnance material. Progress report. Jul 1-Sep 30, 1943. Dec 1943.
28p graphs. MI \$.50 Ph \$2.00.
- OSRD 3060 See OSRD 1673.
- OSRD 3061 PBL 19568 (1-1408)
Sachs, George, and others
Correlation of information available on the fabrication of aluminum alloys (WA-126). Section II—Examples of fabricating individual parts. Final report. Vol. I, Jun 15, 1943; Vol. II, Sept 15, 1943. Jul, Dec 1943.
- | PB | OSRD | P | MI | Ph |
|-------|------|-----|--------|---------|
| 19568 | 3061 | 212 | \$2.50 | \$15.00 |
| 19569 | 1674 | 159 | 2.00 | 11.00 |
- OSRD 3063 PBL 19567 (1-1503)
Sachs, George
Correlation of information available on the fabrication of aluminum alloys (WA-126): Final report section III, summary, contents, and index of sections I and II. Dec 1943.
46p MI \$.50 Ph \$4.00.
- OSRD 3064 PBA 6815 (1-484)
Hurd, Charles D.
Progress report on "Selenonium and sulfonium halides," to December 8, 1943. 1944.
13p MI \$.50 Ph \$1.00.
- OSRD 3065 PBA 6814 (1-682)
Hurd, Charles, D.
"Synthesis of various amino acids." Jan 1944.
13p MI \$.50 Ph \$1.00.
- OSRD 3066 PBL 5227 (1-349)
Bakelite Corporation
Progress report on "Methods of studying corrosion and blistering tendencies of under-water coatings." 1944.
20p Ph \$2.00 MI \$.50.
- OSRD 3067 PBL 5214 (1-438)
Knapp, Robert T.
Memorandum on water tunnel tests of the 4.5" rocket projectile with three different fin tails and with one ring type tail. 1943.
40p illus. Ph \$3.00 MI \$.50.
- OSRD 3068 PBL 5210 (1-437)
Knapp, Robert T.
Memorandum on water tunnel tests of a 2.37" rocket projectile with hemispherical noses and ring tails. 1943.
21p illus. Ph \$2.00 MI \$.50.
- OSRD 3069 PBL 20282 (2-6)
Lollar, Robert M.
Preservation of shoe sewing thread. Progress report. Jan 1944.
17 p MI \$.50 Ph \$2.00.
- OSRD 3070 PBL 34796 (3-152)
Porta, Delmer C.
Effect of hills and trees as obstructions to radio propagation: Analysis of propagation characteristics of high and very high frequencies over hills and through trees for fixed point communication at elevations above the ground level. Final report. Nov 1943.
166 p charts, curves, drawings, map, photos. MI \$4.00 Ph \$12.00.
- OSRD 3071 PBA 15628 (1-986)
Pease, Robert N., and others
Catalysts for the oxidation of carbon monoxide in air; Progress report to July 1, 1943. Jan 1944.
20p tabs. MI \$.50 Ph \$2.00.
- OSRD 3074 PBL 5207 (1-373)
Knapp, Robert T.
Water tunnel tests of the M-7, 2.36" A.T. rocket. 1943.
25p illus. Ph \$2.00 MI \$.50.
- OSRD 3075 PBL 5844 (1-411)
Almy, G. M., and others
Three to twenty million volt radiography. 1944.
38p Ph \$3.00 MI \$.50.
- OSRD 3078 PBA 6801 (2-666)
Jenkins, Russell L., and Hardy, Edgar E.
Preparation of alkyl fluorophosphates. 1944.
30p illus. Ph \$2.00 MI \$.50.
- OSRD 3084 PBL 31053 (2-873)
Jones, Reginald L.
A wide range projector for the lower audible and upper subsonic frequencies. Nov 1943.
58p photos, tables, graphs, diagrs. MI \$2.00 Ph \$4.00.

- OSRD 3086 PBL 58225 (4-968)
Gulf Research and Development Co., Pittsburgh, Pa.
Experimental investigations in connection with high angle dirigible bombs: The AZON bomb. Progress report, Oct 15, 1943. 1943. 151p photos, diagrs, graphs. MI \$4.00 Ph \$11.00.
- OSRD 3088 PBL 4025 (1-446)
Viteles, Morris S., and others
Memorandum on supplemental lesson plans for course in 40 mm. gunnery. 1944. 9p Ph \$1.00 MI \$5.00.
- OSRD 3089 PBL 50858 (4-575)
Ellis, L. G., and others
Location of non-metallic land mines by the use of high frequency oscillations. Feb 1944. 33p diagrs, graphs, photos. MI \$1.00 Ph \$3.00.
- OSRD 3090 PBL 24882 (2-257)
Ellis, L. G., and others
The location of non-metallic land mines by the use of vibrational devices. Feb 1944. 70p photos, diagrs, drawings, tables, graphs. MI \$1.00 Ph \$5.00.
- OSRD 3091 PBL 6558 (1-485)
Jones, C. E., and Davies, D. E.
Sound recording on magnetic materials. 1943. 15p Ph \$1.00 MI \$5.00.
- OSRD 3101 PBL 21124 (1-1437)
McAdams, W. H., and others
Means of improving inflation of life rafts at low temperatures: Progress report. Jan 1944. 18p tables. MI \$5.00 Ph \$2.00.
- OSRD 3102 PBL 18365 (2-16)
Lindsay, Donald B., and others
A study of the Foxboro trainer as a training device for learning to track by means of pip-matching. Dec 1943. 18p curves, tables. MI \$5.00 Ph \$2.00.
- OSRD 3103 PBL 18361 (1-1270)
Lindsay, Donald B., and others
Memorandum on recommendations for the use of the Foxboro Trainer (BC-968). Dec 1943. 12p graphs. MI \$5.00 Ph \$1.00.
- OSRD 3105 PBL 22889 (2-170)
Wiener, F. M., and others
Response characteristics of inter-phone equipment IV. Jan 1944. 87p graphs. MI \$3.50 Ph \$22.00.
- OSRD 3108 PBL 19830 (2-78)
Rudmose, H. M., and others
Effects of high altitude on the human voice. Jan 1944. 11p diagrs, graphs, tables. MI \$1.50 Ph \$8.00.
- OSRD 3108 See OSRD 4052.
- OSRD 3109 PBL 22605 (2-42)
Grenell, L. H., and others
Examination of enemy materiel (00-113): Metallurgical and industrial examination of two Japanese 20 mm. aircraft mounted machine guns of 1941. Progress report 28, Dec 6, 1943. Jan 1944. 57p photos. MI \$1.00 Ph \$4.00.
- OSRD 3111 PBL 6549 (1-471)
Yoe, John H., and Cogbill, Everett C.
Organic reagents for L and ED. 1944. 9p Ph \$1.00 MI \$5.00.
- OSRD 3113 PBL 6802 (1-830)
Jenkins, R. L., and others
Description of process preliminary, diisopropyl fluorophosphate, Batch Method. Progress report to Jan 1, 1944. Jan 1944. 20p diagram. MI \$5.00 Ph \$2.00.
- OSRD 3115 PBL 22606 (2-128)
Gillett, H. M., and others
Examination of enemy materiel (00-113): Metallurgical examination of German 80 mm. mortar shells. Jan 1944. 29p photos, drawings. MI \$5.00 Ph \$2.00.
- OSRD 3116 PBL 22607 (2-46)
Henderson, A. S., and others
Examination of enemy materiel (00-113): Metallurgical examination of a 6.5 mm. Japanese light machine gun. Progress report 30, Dec 8, 1943. Jan 1944. 18p photos, tables. MI \$5.00 Ph \$2.00.
- OSRD 3117 PBL 20278 (2-32)
Roddy, William T., and Gapuz, Domingo B.
Influence of oils on shoe leathers: Behavior of oil treated leather at cold and at hot temperatures. Progress report. Jan 1944. 50p MI \$5.00 Ph \$4.00.
- OSRD 3118 PBL 20279 (2-32)
Greene, H. E.
Sterilization of used army shoes. Progress report. Jan 1944. 27p MI \$5.00 Ph \$2.00.
- OSRD 3119 PBL 20280 (2-32)
Lollar, Robert M.
Mold resistant treatments for leathers. Progress report. Jan 1944. 25p tables. MI \$5.00 Ph \$2.00.
- OSRD 3120 PBL 20281 (2-32)
Greene, Hoke S., and Lollar, Robert M.
Preservatives in Army dubbings. Progress report. Jan 1944. 20p tables. MI \$5.00 Ph \$2.00.
- OSRD 3121 PBL 23724 (2-313)
Moulton, E. J., and Lewis, John H.
A system for obtaining great circle fixes by use of stereographic grids or maps. Dec 1943. 29p diagrs, photos. MI \$5.00 Ph \$2.00.
- OSRD 3125 PBL 22608 (2-129)
Gillett, H. M., and others
Examination of enemy materiel (00-113): Metallurgical examination of German 50 mm. mortar shells manufactured in 1939 and 1940. Jan 1944. 19p photos, drawings. MI \$5.00 Ph \$2.00.
- OSRD 3126 PBL 22609 (2-45)
Henderson, A. S., and others
Examination of enemy materiel (00-113): Metallurgical examination of an Italian 20 mm. antitank Solothurn rifle. Progress report 31, Dec 14, 1943. Jan 1944. 19p photos, tables. MI \$5.00 Ph \$2.00.
- OSRD 3127 PBL 22610 (1-1574)
Gillett, H. M., and others
Examination of enemy materiel (00-113): A metallurgical examination of three Japanese 75 mm. high-explosive shells and carrier. Progress report 27, Dec 1, 1943, Jan 1944. 40p photos, tables. MI \$5.00 Ph \$3.00.
- OSRD 3128 PBL 51004 (4-871)
Rochester University. Institute of Optics
Air-surface vessel identification system—IV. (Developments to Oct 15, 1943.) Oct 1943. 36p photos, diagrs. MI \$1.00 Ph \$3.00.
- OSRD 3134 PBL 33250 (3-6)
Rochester University. Institute of Optics
Report on development of infrared-sensitive phosphors. Aug 1943. 9p tables, graphs, diagrs. MI \$2.00 Ph \$7.00.
- OSRD 3135 PBL 28600 (2-536)
Morey, D. R.
The flash protective shutter for air-craft binoculars. Final report. Sep 1943. 25p photos, drawings. MI \$1.00 Ph \$2.00.
- OSRD 3136 PBL 33357 (2-822)
Bausch and Lomb Optical Co., Rochester, N. Y.
Schmidt auto-collimator unit. Report No. 2: Part I. Molds; Part II. Auto-collimator units and final report. Dec 1943. Jun 1945. 8p MI \$1.00 Ph \$1.00.
See also PB 33356.
PB 33357 OSRD 3136 8p MI \$1.00 Ph \$1.00
PB 33358 OSRD 5158 11p MI \$1.00 Ph \$1.00
- OSRD 3137 PBL 51002 (4-1067)
Floyd, F. M.
Stereoscopic camera with rapid automatic development. May 1943. 8p photos, drawings. MI \$1.00 Ph \$1.00.
For later report see PB 51003.
- OSRD 3138 PBL 33251 (2-661)
Carnegie Institution of Washington, Mount Wilson Observatory
Methods of making triple prisms. First and second progress report, Aug 1, 1942-Mar 31, 1943. Jan-Mar 1943. Graph.

PB	P	OSRD	MI	Ph
33251	8	3138	\$1.00	\$1.00
33252	4	3138	1.00	1.00
- OSRD 3139 See OSRD 3138.
- OSRD 3140 PBL 33340 (2-864)
Polytechnic Institute of Brooklyn
OSRD contract No. OEHr 982 (preparation of infra-red phosphors). Report, Mar-Aug 31, 1943. Aug 1943. 52p tables, drawings, curves. MI \$2.00 Ph \$4.00.
- OSRD 3141 PBL 22466 (2-82)
Bond, H. A., and McGovern J. J.
Generator for the use of sodium hydride-aluminum mixture for field generation of hydrogen: Final report. Jan 1944. 35p photos, diagrs, table. MI \$5.00 Ph \$3.00.
- OSRD 3142 PBL 22467 (2-82)
Bond, H. A., and Dunning, J. M.
Sodium hydride-aluminum mixtures for field generation of hydrogen: Final report. Jan 1944. 29p photos, diagrs, tables. MI \$5.00 Ph \$2.00.
- OSRD 3143 PBL 19554 (1-1347)
Gensamer, Maxwell, and others
Plastic flow of aluminum aircraft sheet under combined loads-I (Me-149): Progress reports, May 1943-Mar 1944. n.d. Curves, tables, photos.

PB	OSRD	MI	Ph
19554	3143	\$5.00	\$3.00
19560	1546	\$5.00	\$2.00
19581	1940	\$5.00	\$3.00
19583	3744	\$5.00	\$3.00

- OSRD 3148 PBL 27541 (2-108)
Bell Telephone Laboratories, New York
Magnetic airborne detector investigation of
magnetic noise (supplemental report). Jan 1944.
20p graphs, diagrs. MI \$1.00 Ph \$2.00.
- OSRD 3152 PBL 15848 (1-1347)
Fetters, K. L., and others
Improvement in gun steel ingot prac-
tice (OD-34-3). Progress report, Jul 15-
Oct 15 1943. Jan 1944.
60p diagrs, drawings, photos.
MI \$1.50 Ph \$4.00.
- OSRD 3153 PBM 20286 (2-54)
Clark, R. E., and others
The effects of sleep loss on perform-
ance of a complex task. Sep 1943.
19p diagrs, graphs, figures.
MI \$1.50 Ph \$2.00.
- OSRD 3154 PBA 18888 (2-323)
Westheimer, F. H.
The oxyntation reaction: Progress
report, Jan 13, 1944. Jan 1944.
45p tables, graph. MI \$1.50 Ph \$3.00.
- OSRD 3157 PBL 12024 (1-766)
Kurtz, Albert K., and Seashore, Harold
The code receiving tests. Feb 1944.
3p MI \$1.50 Ph \$1.00.
(Complete set of phonograph records
at Library of Congress.)
- OSRD 3159 PBL 31010 (3-88)
Primakoff, H.
The acoustic properties of domes,
part I. Jan 1944.
43p drawings, graphs, tables.
MI \$1.00 Ph \$3.00.
For part II see PB 31011.
- OSRD 3161 PBL 5212 (1-437)
Knapp, Robert T.
Memorandum on water tunnel tests of
a 4.5" rocket projectile. 1943.
16p illus. Ph \$2.00 MI \$1.50.
- OSRD 3163 PBA 6692 (1-1063)
Reed, Frank H., and Finger, G. C.
"Aromatic fluorocarbons" to January
30, 1943. Final report. Jan 1944.
34p MI \$1.50 Ph \$3.00.
- OSRD 3164 PBL 22468 (1-1601)
Maurer, Frank W.
Development of a full-face oxygen mask
incorporating ventilated fog-proof lenses.
Progress report, Jan 20, 1944. Jan 1944.
57p drawings, photos. MI \$1.00 Ph \$4.00.
- OSRD 3165 PBL 22611 (1-1582)
Henderson, A. S., and others
Examination of enemy materiel (OD-113):
Corrosion protection of Japanese ordnance.
Progress report 32, Dec 27, 1943. Jan 1944.
13p photos. MI \$1.50 Ph \$1.00.
- OSRD 3166 PBL 30782 (2-538)
Bryant, E. E., and McIntyre, G. H.
Development of a suitable and noncritical
fused inorganic coating for cooking utensils
and other quartermaster's items (QMC-18).
Final report, Dec 15, 1943. Jan 1944.
35p drawings. MI \$1.00 Ph \$3.00.
- OSRD 3158 PBL 5208 (1-373)
Knapp, Robert T.
Water tunnel tests of the 7.2" chem-
ical rockets. 1943.
26p illus. Ph \$2.00 MI \$1.50.
- OSRD 3172 PBL 43039 (3-885)
Kell, R. D.
Improved sensitivity of television
equipment. Progress report No. 3, Oct 1-
Dec 1, 1943. Dec 1943.
20p diagrs, photos. MI \$1.00 Ph \$2.00.
See also PB 43037 and PB 43038.
- OSRD 3173 PBL 43034 (2-866)
Rose, A.
Improved sensitivity of television equip-
ment. Progress report, Oct-Nov 1943. Nov 1943.
5p MI \$1.00 Ph \$1.00.
For final report see PB 43036.
- OSRD 3174 PBL 43037 (3-885)
Kell, R. D.
Improved sensitivity of television equip-
ment. Progress report No. 1, Jan-Aug 1943.
Aug 1943.
40p diagrs, photos. MI \$1.00 Ph \$3.00.
See also PB 43038, PB 43039.
- OSRD 3175 PBL 19543 (1-1501)
Hunter, M. A.
Physical and stress corrosion properties of
magnesium alloys sheet (MA-147): Progress
report, Sep 1, to Dec 1, 1943. Jan 1944.
21p MI \$1.50 Ph \$2.00.
- OSRD 3176 PBL 33209 (2-969)
DeGarmo, E. Paul, and others
Residual stresses in ship welding. Prog-
ress report, Jul 1-Nov 1, 1943. Jan 1944.
80p photos, drawings, tables.
MI \$2.00 Ph \$5.00.
See also PB 33210, PB 33211, and 61376.
- OSRD 3177 PBL 13318 (1-824)
Gulliksen, Harold
Memorandum on service school grades.
Jan 1944.
11p MI \$1.50 Ph \$1.00.
- OSRD 3178 PBL 12028 (1-1043)
Snidecor, John C., and others
Methods of training telephone talkers
for increased intelligibility. Jan 1944.
44p MI \$1.50 Ph \$3.00.
- OSRD 3179 PBA 6803 (1-701)
Woodhouse, John C., and others
Storage characteristics and stabiliza-
tion of Levinstein H. n.d.
74p MI \$1.00 Ph \$5.00.
- OSRD 3180 PBL 21111 (1-1498)
Clark, D. S., and others
The influence of velocity on the ten-
sile properties of a carbon steel, two
national emergency steels, and a mangan-
ese steel. Jan 1944.
52p tables, graphs, photos. MI \$1.00 Ph \$4.00.
- OSRD 3181 PBL 22612 (1-1575)
Hoglund, and others
Examination of enemy materiel (OD-
113): Examination of a joint on a Jap-
anese gasoline tank. Progress report
38, Jan 7, 1944. Jan 1944.
5p photo. MI \$1.50 Ph \$1.00.
- OSRD 3182 PBL 22613 (1-1574)
Grenell, L. H., and others
Examination of enemy materiel (OD-
113): A metallurgical examination of a
Japanese four-barrel carburetor. Progress
report 34, Dec 30, 1943. Jan 1943.
13p photos. MI \$1.50 Ph \$1.00.
- OSRD 3183 PBL 22614 (1-1580)
Grenell, L. H., and others
Examination of enemy materiel: Met-
allurgical examination of a German Pz.B.
antitank rifle of 1941. Progress report
33, Dec 23, 1943. Jan 1943.
23p photos, tables. MI \$1.50 Ph \$2.00.
- OSRD 3186 PBL 13301 (1-824)
Frederiksen, Norman, and Peterson, D. A.
Development and validity of the
United States Navy officer qualification
test. Jan 1944.
100p MI \$1.00 Ph \$7.00.
- OSRD 3187 PBL 13319 (1-901)
Gulliksen, Harold
Selection of test items by correlation
with an external criterion, as applied to
the mechanical comprehension test-OQT
O-2. Jan 1944.
11p MI \$1.50 Ph \$1.00.
- OSRD 3193 PBL 5209 (1-373)
Knapp, Robert T.
Water tunnel tests of 2.37" rocket projec-
tile with collapsible type tails. 1943.
20p illus. Ph \$2.00 MI \$1.50.
- OSRD 3195 PBL 5211 (1-433)
Knapp, Robert T.
Memorandum on water tunnel tests of the M-8,
2-36" A.T. rocket, showing comparison of per-
formances with the conical pointed nose com-
bined with three types of shroud ring tail and
with shroud rings of various lengths. 1943.
19p illus. Ph \$2.00 MI \$1.50.
- OSRD 3196 PBL 4642 (1-442)
Thompson, Norman J., and others
The use of fortified fuel in flame throwers,
incendiary bombs and incendiary mortars. 1944.
43p illus. Ph \$3.00 MI \$1.50.
- OSRD 3197 PBL 21122 (2-220)
Wheeler, T. L., and Latham, Allen, Jr.
Hand-operated vapor compression
still for producing potable water
from sea water: Final report. Jan 1944.
25p photos, diagrs. MI \$1.50 Ph \$2.00.
- OSRD 3207 PBL 18885 (1-1577)
Duwez, Pol E.
Preliminary experiments on propagation of
plastic deformation, a revision on NDRC Report
A-33 (OSRD No. 380). Feb 1944.
23p curves. MI \$1.50 Ph \$2.00.
- OSRD 3208 PBL 33387 (3-24)
New Jersey Zinc Co., Research Div., and General
Electric Co., Weta Park Engineering Dept.
Blackout driving-ultraviolet system—as
demonstrated at Palmerton, Pa., on Sep 27, 1943.
Report, Jul 1-Oct 1, 1943. Nov 1943.
37p photos, graphs, map, table.
MI \$1.00 Ph \$3.00.
Samples will not reproduce. See also
PB 33348.
- OSRD 3209 PBL 15234 (1-1166)
Herzfeld, Karl F.
A theorem on radial deformation in
thick tubes. Jan 1944.
10p MI \$1.50 Ph \$1.00.

OSRD 3210 See OSRD 4404.

OSRD 3213 PBL 5579 (1-502)
Lundy, W. L., and Comings, E. W.
A continuous sulphur smoke generator. 1944.
31p illus. Ph \$3.00 MI \$0.50.

OSRD 3215 PBL 31009 (2-952)
Gregg, E. C., Jr.
Thermocouple wattmeters using unmatched thermocouples. Jan 1944.
7p diagr. MI \$1.00 Ph \$1.00.

OSRD 3216 PBL 11209 (1-686)
Heim, H. J., and Webb, R. C.
Design and construction of cathode ray oscillograph. Mar 1944.
55p illus. MI \$1.00 Ph \$4.00.

OSRD 3218 PBL 19505 (1-1346)
Dorn, J. E., and Thomsen, E. G.
The effect of combined stresses on the ductility of metals. Feb 1944.
42p diagr. charts. MI \$0.50 Ph \$3.00.

OSRD 3219 PBL 18487 (1-1043)
Badger, Richard M., and others
Report on an investigation of photographic methods of making reticles. Dec 1943.
51p photos. MI \$1.00 Ph \$4.00.

OSRD 3227 PBL 32206 (2-865)
Schumb, Walter C., and others
The generation of fluorine. Progress report. Jun 1943. Final report Jan 1944, Feb 1944.
PB 32205 OSRD 1690 15p MI \$1.00 Ph \$1.00
PB 32206 OSRD 3227 8p MI 1.00 Ph 1.00

OSRD 3228 PBL 6542 (1-539)
Jenkins, R. L., and others
Description of process, preliminary, diisopropyl fluorophosphate, continuous method. 1944.
29p MI \$0.50 Ph \$2.00.

OSRD 3230 PBL 27144 (2-537)
Koehler, James S., and Seitz, Frederick
The stress waves produced in a plate by a plane pressure pulse. Feb 1944.
40p diagr. MI \$1.00 Ph \$3.00.

OSRD 3232 PBL 22867 (2-51)
Rosser, J. Barkley
Fin opening. Feb 1944.
28p graph, drawings, tables. MI \$0.50 Ph \$2.00.

OSRD 3236 PBL 22615 (2-44)
Grenell, L. H., and others
Examination of enemy material (OD-113): Metallurgical examination of welded armor plate—German PzKw III tank. Progress report 35, Dec 31, 1943. Feb 1944.
16p photos, diagr. MI \$0.50 Ph \$2.00.

OSRD 3237 PBL 27143 (2-300)
Pugh, Emerson M.
Explosion chamber muffler. Feb 1944.
10p diagr. MI \$1.00 Ph \$1.00.

OSRD 3238 See OSRD 3398.

OSRD 3239 PBL 4194 (1-318)
Johnson, R. E., Carnegie Institute, Geophysical Laboratory
A method of obtaining the state and composition of the powder gas at shot ejection with tables for pyro powder.
15p MI \$0.50 Ph \$1.00.

OSRD 3245 PBL 13300 (1-980)
Fredericksen, Norman
Validity of Navy aptitude tests in service schools at the Great Lakes Naval Training Station. Jan 1944.
36p tables. MI \$0.50 Ph \$3.00.

OSRD 3246 PBL 13320 (1-900)
Conrad, Herbert S.
Statistical analysis of the Mechanical Knowledge test. Jan 1944.
14p MI \$0.50 Ph \$1.00.

OSRD 3249 PBA 6522 (1-681)
Folkers, Karl
Preparation and testing of substances as neutralizing or Therapeutic agents for H burns. Feb 1944.
43p MI \$0.50 Ph \$3.00.

OSRD 3256 PBL 18470 (1-1247)
Clark, D. S., and others
The influence of impact velocity on the tensile properties of four magnesium alloys and 24S Aluminum alloy. Feb 1944.
30p MI \$0.50 Ph \$2.00.

OSRD 3257 PBL 22622 (2-44)
Grenell, L. H., and others
Examination of enemy material (OD-113): A metallurgical study of a 28/20 mm. German gun barrel. Progress report 37, Jan 8, 1944. Feb 1944.
13p photos, diagr. MI \$0.50 Ph \$1.00.

OSRD 3258 PBL 27342 (2-504)
Gildart, L. W.
An investigation of the comparative merits of the thermistor-a.c. amplifier system and the thermocouple-galvanometer system. Final report. Jan 1944.
32p graphs. MI \$1.00 Ph \$3.00.

OSRD 3259 PBL 34124 (3-49)
U. S. National Defense Research Committee
Tank fire control—visual range estimation: Range finders and range finder fields. Report to the services No. 77. Div. 7, Fire Control, Feb 1944.
87p tables, graphs. MI \$2.00 Ph \$6.00.

OSRD 3260 PBL 20283 (2-32)
Lollar, Robert M.
Report on toxicity studies on preservative bearing leather. n.d.
14p tables. MI \$0.50 Ph \$1.00.

OSRD 3262 PBL 12182 (1-901)
Graham, C. H., and others
The relation of selection test scores to tank escape performance: Submarine school. Jan 1944.
11p MI \$0.50 Ph \$1.00.

OSRD 3263 PBL 22616 (2-42)
Grenell, L. H., and others
Examination of enemy material (OD-113): Metallurgical examination of a German 7.92 mm. semiautomatic rifle, Gewehr 41 (M). Progress report 38, Jan 21, 1944. Feb 1944.
13p photos. MI \$0.50 Ph \$1.00.

OSRD 3267 PBL 22617 (2-43)
Grenell, L. H., and others
Examination of enemy material (OD-113): Metallurgical examination of a German Schweizer submachine gun 9 mm., model MP-40.

Progress report 39, Jan 26, 1944. Feb 1944.
15p photos. MI \$0.50 Ph \$1.00.

OSRD 3268 PBL 22618 (2-45)
Reichelderfer, Charles A., and others
Examination of enemy material (OD-113): Metallurgical examination of tungsten carbide cores from German armor-piercing projectiles. Progress report 40, Jan 13, 1944. Feb 1944.
11p photos. MI \$0.50 Ph \$1.00.

OSRD 3269 PBL 6520 (1-690)
Kidd, John G., and Landsteiner, Karl
Induced hypersensitivity to bis (8-Chloroethyl) sulphide and to (BAL) in guinea pigs. Jan 1944.
20p MI \$0.50 Ph \$2.00.

OSRD 3272 PBL 19549 (1-1487)
Barratt, Charles S., and others
Deformation characteristics of magnesium alloys (NA-148): Second quarterly progress report, Sep 15 to Dec 15, 1943. Feb 1944.
47p MI \$0.50 Ph \$4.00.

OSRD 3274 PBL 19515 (1-1502)
Mattson, R. L., and Almen, J. O.
Effect of shot blasting on the mechanical properties of steel (NA-115): Part I. Final report, Oct 1, 1942-Sep 30, 1943. Feb 1944.
113p charts, diagr. photos, tables.
MI \$1.50 Ph \$8.00.

OSRD 3286 PBL 20287 (2-109)
Hudson, Bradford R., and Searle, Lloyd V.
Description of the Tufts tracking trainer. Feb 1944.
20p photos, diagr. MI \$0.50 Ph \$2.00.

OSRD 3291 PBA 63632 (5-474)
Kracok, F. C., and Benedict, W. S.
An experimental study of powder gas radiation and temperature. Feb. 1944.
151p tables, graphs, photos, diagr.
MI \$4.00 Ph \$11.00.

OSRD 3292 PBL 18886 (2-30)
Dawez, P. E., and others
The behavior of large plates under impact loading. Feb 1944.
32p curves, drawings, photos. MI \$0.50 Ph \$3.00.

OSRD 3293 PBL 22868 (2-177)
Lampson, C. W.
A method of low-frequency compensation of amplifiers to reproduce transients of long duration. Mar 1944.
19p curves. MI \$0.50 Ph \$2.00.

OSRD 3296 PBL 19566 (1-1503)
Sachs, George, and others
Correlation of information available on the fabrication of Aluminum alloys (NA-126): Final report. Feb 1944.
186p tables. MI \$2.00 Ph \$13.00.

OSRD 3300 PBL 4227 (1-304)
Simpson, O. C., and others
High-speed compression testing of copper crusher cylinders and spheres. 1944.
52p illus. Ph \$4.00 MI \$1.00.

OSRD 3311 PBL 31054 (2-873)
Jones, Reginald L.
A low frequency hydrophone calibration system. Jan 1944.
80p photos, diagr. MI \$2.00 Ph \$6.00.

- OSRD 3312 PBL 12023 (1-831)
The Psychological Corporation, New York
Information regarding an analysis of recordings made from the telephone circuits on board a battleship and a destroyer. Feb 1944.
6p MI \$.50 Ph \$1.00.
- OSRD 3313 PBL 12022 (1-763)
Curtis, James F.
The relation between loudness of voice and the intelligibility of airplane interphone communication. (For additional information see PB 1021.) Feb 1944.
12p illus. MI \$.50 Ph \$1.00.
- OSRD 3315 PBL 12063 (1-1042)
Shipley, W. C., and others
Item analysis and evaluation of the scoring stencil of the personal inventory. Feb 1944.
15p tabs. MI \$.50 Ph \$1.00.
- OSRD 3316 PBL 20291 (2-113)
Weiss, H. K.
Tracer stereographs with vertical base line. n.d.
7p drawings. MI \$.50 Ph \$1.00.
- OSRD 3317 See OSRD 1876.
- OSRD 3321 PBL 11213 (1-839)
Hathaway, Claude M., and Reno, Herbert
Development of a special oscillograph for Aberdeen Proving Ground. Report No. 2. Dec 1943.
18p illus. MI \$.50 Ph \$2.00.
- OSRD 3322 PBL 11212 (1-690)
White, C. B., and others
The design and construction of a multichannel recording cathode ray oscillograph. 1944.
56p MI \$1.00 Ph \$4.00.
- OSRD 3324 PBL 30751 (2-550)
Rohm and Haas Co., Philadelphia
Combustible nitro polymers. Final report, Feb 15, 1944. Mar 1944.
88p MI \$2.00 Ph \$6.00.
- OSRD 3329 PBL 63631 (5-212)
Critchfield, Charles L.
On the heating of rotating band. Feb 1944.
17p tables, graphs. MI \$1.00 Ph \$2.00.
- OSRD 3331 PBL 22869 (2-124)
Fireman, E. L., and others
The set added to compressed cylinders after impact. Mar 1944.
23p MI \$.50 Ph \$2.00.
- OSRD 3334 PBL 18366 (1-1240)
Lindsley, Donald B., and others
Radar operator "fatigue": the effect of length and repetition of operating periods on efficiency of performance. Jan 1944.
38p diagrs, tables, graphs. MI \$.50 Ph \$3.00.
- OSRD 3335 PBL 31048 (2-874)
Massachusetts Institute of Technology
Sound transmission measurements made off San Diego from Aug 31 to Sep 10, 1943; with an appendix on the theory of propagation of low frequency sound in deep water, by C. L. Pekeris. Feb 1944.
82p map, graphs. MI \$2.00 Ph \$5.00.
- OSRD 3340 PBL 13117 (1-806)
Barry, James M.
Tests of odograph in M-29 cargo carrier, cargo-carrying sled, and special trailer. Apr 1944.
15p MI \$.50 Ph \$1.00.
- OSRD 3344 PBL 18364 (1-1271)
Lindsley, Donald B., and others
A study of the SCR-584 basic trainer as a tracking device for learning range tracking. Feb 1944.
15p tables, diagrs. MI \$.50 Ph \$1.00.
- OSRD 3346 PBL 19831 (1-1524)
Godfrey, H. J., and others
Corrosion fatigue failure of aircraft control cables, (M-101): The effect of metallic coatings and lubricants on the fatigue and internal friction properties of aircraft cables. Progress report 4, May 1 1943-Dec 31, 1943. Mar 1944.
92p drawings, curves, tables. MI \$1.00 Ph \$7.00.
- OSRD 3347 PBL 15851 (1-1409)
Mehl, R. F., and others
Improvement in gun steel ingot practices (00-34-3) Progress report, 15 Oct 1943-15 Jan 1944. Feb 1944.
41p graphs, photos, tables. MI \$.50 Ph \$3.00.
- OSRD 3350 PBL 19502 (1-1346)
Dorn, J. E., and others
Formability of magnesium alloy sheet (NA-146): Part III—Evaluation of the deep drawing properties of magnesium alloys at elevated temperatures. Final report. Mar 1944.
127p diagrs, photos, tables. MI \$1.50 Ph \$9.00.
- OSRD 3353 PBA 4219 (1-285)
Yoe, John H., and Cole, James M.
Analysis of Lewisite catalysts for copper. 1944.
14p Ph \$1.00 MI \$.50.
- OSRD 3354 PBA 4217 (1-351)
Coleman, George H., and others
I. Preparation of compounds other than nitrogen mustards. II. Derivatives of C W agents. 1944.
12p Ph \$1.00 MI \$.50.
- OSRD 3357 PBM 16460 (1-1198)
Medell, Carl H.
A study of the prediction of night lookout performance. Mar 1944.
42p MI \$.50 Ph \$3.00.
- OSRD 3359 PBL 9406 (1-607)
Wheeler, T. L., and Fogler, Benjamin
Development of a test unit for production of oxygen by a regenerative chemical. 1944.
118p MI \$1.50 Ph \$8.00.
- OSRD 3360 PBL 40625 (3-743)
Studebaker Corp., South Bend, Ind.
Light cargo carrier development and redesign. Final report. Jan 1944.
152p photos, drawings, graphs. MI \$4.00 Ph \$11.00.
- OSRD 3364 PBL 33343 (3-47)
Bell Telephone Laboratories, New York
Night surveying and signaling by infrared (transit survey). Final report. Feb 1944.
30p photos, diagr. MI \$1.00 Ph \$2.00.
- OSRD 3366 PBA 4204 (1-365)
Ball, Eric G., and others
A study of the ability of compounds with high competition factors to counteract the injurious effects of mustard gas. 1943.
38p Ph \$3.00 MI \$.50.
- OSRD 3367 PBL 6010 (1-534)
Woodhouse, J. C.
Use of crude white arsenic in a Chemical Warfare Service arsenic trichloride plant, to September 1, 1943. 1944.
15p MI \$.50 Ph \$1.00.
- OSRD 3368 PBL 22619 (2-44)
Grenell, L. H., and others
Examination of enemy material (00-113): Metallurgical examination of two German 15 cm. anticoncrete shells and carriers. Progress report 43, Feb 18, 1944. Mar 1944.
27p photos, diagrs. MI \$.50 Ph \$2.00.
- OSRD 3369 PBL 8345 (1-540)
Wheeler, T. L., and Latham, A., Jr.
Shipboard, liquid oxygen units. Progress report to Feb 3, 1944. 1944.
51p illus. MI \$1.00 Ph \$4.00.
- OSRD 3370 PBL 33359 (2-825)
Woodson, R. A.
Autocollimator buttons. Progress report, Jul 1-Dec 1, 1943. Jan 1944.
13p MI \$1.00 Ph \$1.00.
- OSRD 3371 PBA 33349 (2-863)
Fonda, G. R.
Preparation of stimulated zinc sulfide phosphores. Report II—Characteristics. Progress report. Dec 1943.
13p graphs, tables. MI \$1.00 Ph \$1.00.
- OSRD 3372 PBL 31011 (3-88)
Primkoff, H.
The acoustic properties of domes, part II. Feb 1944.
64p MI \$2.00 Ph \$5.00.
For part I see PB 31010.
- OSRD 3377 PBL 15875 (1-941)
Wells, Cyril, and Mehl, Robert F.
Improvement in wrought gun tubes. Progress report Mar 1944.
13p MI \$.50 Ph \$1.00.
- OSRD 3384 PBL 5217 (1-483)
Almy, G. M., and others
Three to twenty million volt radiography. 1944.
12p Ph \$1.00 MI \$.50.
- OSRD 3390 PBL 34781 (2-890)
Shipley, W. C., and others
The personal inventory, short form (format C): Derivation and preliminary psychiatric validation. Mar 1944.
13p graphs, tables. MI \$1.00 Ph \$1.00.
- OSRD 3397 PBL 33197 (2-886)
Korush, M., and Critchfield, C. L.
The pressure on a cone moving with small yaw at high velocity. Mar 1944.
22p tables. MI \$1.00 Ph \$2.00.
See also NDRC ACR A-126; OSRD 1104.

- OSRD 3398 PBL 22894 (2-124)
Hoyt, S. L., and others
Non-metallic welding back-up strips for armor plate joints (OD-82). Progress reports and final report. Nov 1943-Mar 1944. photos, tables.
PB OSRD P MI Ph
22892 2080 56 \$1.00 \$5.00
22893 3238 35 .50 3.00
22894 3268 95 1.00 7.00
- OSRD 3399 PBL 33200 (3-13)
Temple, M. D., and others
Investigations on new magnetic recording media. Final report. Feb 1944.
129p diagrs, graphs, photos. MI \$3.00 Ph \$9.00.
- OSRD 3401 PBL 33201 (2-885)
Henkin, H.
Methods of stability testing. Progress report, Jan 1, 1944. Mar 1944.
27p MI \$1.00 Ph \$2.00.
- OSRD 3403 PBL 11636 (1-807)
Eastman Kodak Co.
Progress report on metal mirror problem. Feb 1944.
10p MI \$.50 Ph \$1.00.
- OSRD 3404 PBL 33346 (2-748)
Tuttle, C. M.
Telescope shutter, sun-obscuring device. Progress report. Feb 1944.
12p diagrs. MI \$1.00 Ph \$1.00.
- OSRD 3405 PBL 33345 (3-123)
Eastman Kodak Co., Rochester, N. Y.
Flicker detector, by Charles A. Morrison and Lloyd A. Jones. Progress reports, May 24, Jun 21, 1943; Feb 29, 1944; Application of flicker detector to sea search, by M. A. Arnold and J. L. Boon. Progress report, Feb 9, 1944. May 1943-Feb 1944.
14p photos, diagrs. MI \$1.00 Ph \$1.00.
- OSRD 3406 PBL 15874 (1-1247)
Cunnick, P. C., and McDowell, J. K.
Stress relief of welded joints (OD-34-3). Final report, Jan 15, 1944. Mar 1944.
35p graphs, photos, tables. MI \$.50 Ph \$3.00.
- OSRD 3407 PBL 22501 (1-1571)
Grenell, L. H., and others
Examination of enemy materiel (OD-113): Metallurgical examination of German MG-151 gun parts. Progress report 44, Feb 1, 1944. Mar 1944.
11p charts, photos. MI \$.50 Ph \$1.00.
- OSRD 3409 PBL 12020 (1-757)
Lindsay, Donald B.
Vision as related to proficiency in oscilloscope operation. Feb 1944.
14p illus. MI \$.30 Ph \$1.00.
- OSRD 3410 PBL 6023 (1-472)
Yoe, John R., and Lindsay, Charles H.
Acidimetric and iodometric methods for analysis of carbon monoxide in air. 1944.
42p Ph \$3.00 MI \$.50.
- OSRD 3411 PBL 30763 (2-808)
Martin, F. J., and Messerly, G. M.
The detonation velocity of explosive mixtures containing ammonium nitrate. Progress report, Jan 27, 1944. Mar 1944.
46p graphs, tables. MI \$1.00 Ph \$3.00.
- OSRD 3413 PBL 28540 (2-304)
Mihalyi, J., and Bishop, F. M.
Production design of high-speed anti-glare shutter. Progress report. May 1943.
14p diagrs, photos. MI \$1.00 Ph \$1.00.
- OSRD 3417 PBL 22502 (2-34)
Grenell, L. H., and others
Examination of enemy materiel (OD-113): Examination of ten rounds of German 20 mm. H. E. ammunition. Progress report 45, Mar 1944.
24p photos, tables. MI \$.50 Ph \$2.00.
- OSRD 3418 PBL 22503 (1-1574)
Grenell, L. H., and others
Examination of enemy materiel (OD-113): Metallurgical examination of a Japanese rifle 6.5 mm. (caliber .25). 38th year, pattern M1905. Progress report 42, Feb 7, 1944. Mar 1944.
13p charts, photos. MI \$.50 Ph \$1.00.
- OSRD 3419 PBA 4238 (1-285)
Northrop, John H., and others
I. Method for the determination of H₂ and thioglycol in drops of dyed charging. II. Determination of H₂, H₂O₂, H₂S, and CO by potentiometric titrations. III. Cell for potentiometric determination of various gases in air. 1944.
39p Ph \$3.00 MI \$.50.
- OSRD 3420 PBL 21112 (1-1488)
Clark, D. S., and others
The influence of impact velocity on the tensile properties of three types of ship plate: M5, HTS, STS. Mar 1944.
35p graphs, photos, tables. MI \$.50 Ph \$3.00.
- OSRD 3421 PBL 15263 (1-939)
Herzfeld, Karl F.
On longitudinal stresses in guns. Mar 1944.
12p MI \$.50 Ph \$1.00.
- OSRD 3422 PBL 58226 (4-968)
Gulf Research and Development Co., Pittsburgh, Pa.
Experimental investigations in connection with high angle dirigible bomb: The photoelectric target seeking bomb. Progress report, Jan 1, 1944. Jan 1944.
153p photos, diagrs, graphs. MI \$4.00 Ph \$11.00.
- OSRD 3423 PBL 15843 (1-1251)
Lorig, C. M., and others
Improvement of low alloy armor steels (OD-87): Part V. The effect of draw practice on the mechanical properties of six armor plate steels; Sep 1943-Feb 1944. Mar 1944.
41p graphs, tables. MI \$.50 Ph \$3.00.
- OSRD 3424 PBL 16473 (1-1322)
Gillett, H. W., and others
Flash welding of alloy steels for ordnance (OD-86): Progress report, Jul 15, 1943 to Oct 15, 1943. Mar 1944.
136p graphs, tables, photos. MI \$1.50 Ph \$10.00.
- OSRD 3425 PBL 20209 (1-1498)
Clark, D. S., and others
Behavior of metals under dynamic conditions (MO-11) (MS-109): Some static and dynamic properties of Zmac II die cast alloy in relation to its use in Mark 140 (M1R3) fuse. Progress report, Jan 31, 1944. Mar 1944.
30p drawings, graphs, tables. MI \$.50 Ph \$3.00.
- OSRD 3428 PBA 4212 (1-287)
Lazier, W. A., and Scott, S. L.
Synthesis of organic arsenicals from unsaturated compounds. 1944.
20p Ph \$2.00 MI \$.50.
- OSRD 3434 PBL 15873 (1-939)
Hildorf, W. G., and others
Control of basic open hearth melting practice for the manufacture of wrought gun tubes. Progress report. Mar 1944.
81p graphs. MI \$1.00 Ph \$5.00.
- OSRD 3436 PBA 4210 (1-348)
Northrop, John H.
Automatic detection of gases which react with silver ions by means of silver electrodes. 1944.
11p Ph \$1.00 MI \$.50.
- OSRD 3437 PBA 4189 (1-287)
Hellerman, Leslie, and others
Investigation of detoxicants or decontaminants for mustard gas. Enzyme studies and other chemical studies bearing upon the action of certain vesicants. Formal progress report through June 30, 1943. Jan 17, 1946.
76p MI \$1.00 Ph \$5.00.
- OSRD 3441 PBL 31047 (2-876)
Wyman, Jeffries, and others
Laboratory studies of the acoustic properties of wakes. I. Scattering and absorption of sound by the wake of a small submersible propeller. II. Role of bubbles in wakes. Mar 1944.
67p diagrs, graphs, photos. MI \$2.00 Ph \$5.00.
- OSRD 3443 PBL 18358 (1-1240)
Lindsay, Donald B., and others
Visual status of ASV radar operators. (Applied psychology panel: Selection and training of ocilloscope operators. Research report 9.) Mar 1944.
11p MI \$.50 Ph \$1.00.
- OSRD 3444 PBL 4446 (1-465)
Covner, Bernard J., and others
Detailed fireroom operating procedures for destroyer escort vessels, turbo-electric and turbo-gear types. 1944.
15p illus. Ph \$1.00 MI \$.50.
- OSRD 3445 PBL 12163 (1-982)
Seashore, Harold, and others
The effect of early introduction of sending code upon learning to receive. Jun 1944.
10p table, graph. MI \$.50 Ph \$1.00.
- OSRD 3446 PBL 27161 (2-300)
Mallina, R. F., and Dietz, J. M.
Light-weight rocket projectors. Apr 1944.
24p photos, drawings. MI \$1.00 Ph \$2.00.
- OSRD 3447 PBL 22870 (2-50)
Nordheim, L. M., and others
Thermal effects of propellant gases in erosion vents and in guns. May 1944.
222p tables. MI \$2.50 Ph \$15.00.
- OSRD 3451 PBL 40617 (3-725)
Foxboro Co., Foxboro, Mass.
A study of factors determining accuracy of tracking by means of handwheel control. Sep 1942.
45p MI \$1.00 Ph \$3.00.
See also PB 40612-PB 40616.

- OSRD 3452 PBL 40616 (3-725)
Foxboro Co., Foxboro, Mass.
A supplemental study of factors determining accuracy of tracking by means of handwheel control. Dec 1942.
28p photos, graphs. MI \$1.00 Ph \$2.00.
See also PB 40612-PB 40615, PB 40617.
- OSRD 3453 PBL 40615 (3-724)
Foxboro Co., Foxboro, Mass.
Handwheel speed and accuracy of tracking. May 1943.
17p graphs, tables.
See also PB 40612-PB 40614, PB 40616, 40617.
- OSRD 3454 PBL 40614 (3-724)
Foxboro Co., Foxboro, Mass.
Inertia, friction and diameter in handwheel tracking. Sep 1943.
21p tables, graphs, diagrs. MI \$1.00 Ph \$2.00.
See also PB 40612, 40613, 40615-40617.
- OSRD 3455 PBL 40613 (3-725)
Foxboro Co., Foxboro, Mass.
Relative accuracy of handwheel tracking with one and both hands. Nov 1943.
14p table, photos, graphs. MI \$1.00 Ph \$1.00.
See also PB 40614-PB 40616, PB 40612.
- OSRD 3461 PBL 32207 (2-867)
Klotz, Irving M.
Aqueous hydrolysis of CMC. Progress report. Apr 1944.
9p graphs. MI \$1.00 Ph \$1.00.
- OSRD 3462 PBL 21119 (2-2)
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59p MI \$1.00 Ph \$4.00.
- OSRD 3464 PBL 23713 (2-466)
Brillouin, Leon
On light scattering by spheres: II. Apr 1944.
44p curves, diagrs. MI \$5.00 Ph \$3.00.
For Part I see PB 23712.
- OSRD 3465 PBL 15262 (1-938)
Herzfeld, Karl F.
An improved approximation formula for stresses in cylinders. Apr 1944.
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- OSRD 3467 PBM 1929 (1-561)
Smith, Homer M., and others
Studies on the cause of death after systemic intoxication with the B-chloroethyl vesicants, to March 1, 1944. 1944.
97p illus. Ph \$7.00 MI \$1.00.
- OSRD 3475 PBL 18320 (1-1231)
Adams, J. K., and others
The reliability and precision of the NDRC and Bausch and Lomb Interpupillometers. (Applied Psychology Panel: Selection and training of fire controlmen (R). Rept 2.) Mar 1944.
26p diagrs, tables. MI \$5.00 Ph \$2.00.
- OSRD 3477 PBL 19540 (1-1501)
Hunter, M. A., and others
Physical and stress corrosion properties of magnesium alloy sheet (MA-147): Progress report. Apr 1944.
61p tables. MI \$1.00 Ph \$5.00.
- OSRD 3478 PBL 27358 (2-418)
Brattain, R. R., and Beeck, O.
Memorandum on test of thermistor bolometer as receiver for National Technical Laboratories routine infrared spectrophotometer. Jan 1944.
14p curve, diagr, tables. MI \$1.00 Ph \$1.00.
- OSRD 3480 PBA 4216 (1-348)
Yoe, John H., and Overholser, Lyle G.
Colorimetric determination of fluorine in fluoro-organic compounds. 1944.
8p MI \$1.00 Ph \$2.00.
- OSRD 3481 PBL 4220 (1-286)
Yoe, John H., and others
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23p tables. Ph \$2.00 MI \$5.00.
- OSRD 3482 PBL 9399 (1-908)
Aston, J. G.
Tests of performance of the Collins type expansion engine built by Clark Bros. Co., Inc., to January 26, 1944. Apr 1944.
27p photos, diagrs. MI \$5.00 Ph \$2.00.
- OSRD 3483 PBL 9400 (1-631)
Aston, J. G.
Combined oxygen vapor pressure and gas thermometer, to January 6, 1944. 1944.
46p illus. MI \$5.00 Ph \$4.00.
- OSRD 3484 PBL 9398 (1-759)
Aston, J. G.
Estimation of oil contamination in air from compressors of portable air rectification units, to Jan 19, 1944. Apr 1944.
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- OSRD 3480 PBL 12019 (1-686)
Kurtz, Albert K., and others
The standardization of code speeds. May 1944.
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- OSRD 3505 PBL 12018 (1-768)
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Dawson, R. D., and White, E. R.
Flame thrower fuels. 1944.
39p Ph \$3.00 MI \$5.00.
- OSRD 3507 PBA 4627 (1-319)
Kirkpatrick, E. C.
Chemical ignition of flame throwers. 1944.
15p Ph \$1.00 MI \$5.00.
- OSRD 3508 PBA 4192 (1-316)
Carver, E. K., and Bauer, E. E.
Consistency of Kapalm gels.
41p MI \$5.00 Ph \$3.00.
- OSRD 3509 PBL 18328 (1-1231)
Adams, J. K., and others
The design, accuracy, construction, and use of a range correction computer. Mar 1944.
14p photo, diagr. MI \$5.00 Ph \$1.00.
- OSRD 3510 PBM 4197 (1-366)
Thomson, John F., Goldwasser, Eugene, and Savit, Joseph
Tests for decontamination of Lewisite on human skin.
50p MI \$5.00 Ph \$4.00.
- OSRD 3511 PBL 31016 (2-951)
Snow, M. B., and others
Transmission survey, Block Island Sound. Completion report. Mar 1944.
108p tables, diagrs, charts, graphs. MI \$3.00 Ph \$8.00.
- OSRD 3513 PBL 15872 (1-940)
Troiana, Alexander R.
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- OSRD 3515 PBL 22913 (2-250)
Egan, J. P., and others
The articulation efficiency of nine carbon microphones for use at low altitudes. Jun 1944.
73p diagrs, photos. MI \$1.00 Ph \$5.00.
- OSRD 3516 PBL 22847 (1-1601)
Karlin, J. E., and others
Auditory tests of the ability to hear speech in noise. Sep 1944.
78p photos, diagrs, tables. MI \$1.00 Ph \$6.00.
- OSRD 3522 PBL 4640 (1-370)
Brown, A. L., and Cousins, C. W.
Flow of Kapalm thickened gasoline in pipes (part I) and nozzles (part II) 1944.
58p Ph \$4.00 MI \$1.00.
- OSRD 3523 PBL 9377 (1-760)
Rushton, J. H., and others
Central Engineering Laboratory, Section 11.1 (oxygen), NDRC. Monthly progress reports, Mar 1, 1944 through Mar 1945, excepting Oct 1944. 1944-45.
1,244p MI \$12.50 Ph \$83.00—Series.
Includes progress reports:
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| 9377 | 3523 | \$2.00 | \$13.00 |
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| 9410 | 3760 | 1.00 | 7.00 |
| 9411 | 3861 | 1.50 | 8.00 |
| 9412 | 3972 | 1.00 | 7.00 |
| 9404 | 4142 | 1.00 | 7.00 |
| 9403 | 4207 | 1.00 | 6.00 |
| 9413 | 4302 | 1.00 | 5.00 |
| 9382 | 4516 | 1.00 | 6.00 |
| 9384 | 4623 | 1.00 | 6.00 |
| 9377 | 4732 | 1.00 | 5.00 |
| 9377 | 4879 | 1.00 | 5.00 |
| 9380 | 5040 | 1.50 | 7.00 |
- See also OSRD 4452; OSRD 5153.
- OSRD 3524 PBL 8349 (1-603)
Aston, J. G., and Pfister, June
Calculation of the number of plates in an air rectification tower, 1944.
205p illus. MI \$2.50 Ph \$14.00.
- OSRD 3525 PBL 21114 (1-1436)
McAdams, W. H., and others
Means of improving inflation of life rafts at low temperatures. Apr 1944.
39p diagrs, charts. MI \$5.00 Ph \$3.00.

- OSRD 3534 PBL 16476 (1-1246)
Anderson, E. A., and Peirce, M. M.
Prevention of stress-corrosion cracking of cartridge brass by protective coatings or surface treatment (OD-25): Final report, Aug 15, 1942-Feb 16, 1944. Apr 1944.
32p MI \$1.50 Ph \$3.00.
- OSRD 3536 PBL 22504 (1-1571)
Grenell, L. H., and others
Examination of enemy material (OD-113) (AC-77): Metallurgical examination of German armor piercing tungsten carbide rounds of 28/20, 37, and 50 mm. calibers. Progress report 41, Jan 24, 1944. Apr 1944.
18p drawings, photos. MI \$1.50 Ph \$2.00.
- OSRD 3537 PBL 15859 (1-1322)
Down, G. E., and others
Evaluation of weldability by direct welding tests (OD-37-1): The quantitative measurement of welding response by bead welds. Final report, Suppl, Dec 22, 1943. Apr 1944.
17p graph, tables. MI \$1.50 Ph \$2.00.
- OSRD 3538 PBL 22505 (1-1569)
Evans, R. M., and others
Examination of enemy material (OD-113) (AC-77): Metallurgical examination of a German 75 mm. H. E. hollow charge shell. Progress report 46, Mar 10, 1944. Apr 1944.
13p photos, tables. MI \$1.50 Ph \$1.00.
- OSRD 3539 See OSRD 4052.
- OSRD 3540 PBL 31055 (2-873)
Jones, Reginald L.
Wide range hydrophone for low sound fields. Mar 1944.
50p photos, diagrs. MI \$1.00 Ph \$4.00.
- OSRD 3541 PBL 22912 (2-468)
Kryter, K. D., and others
Experiments with earplugs: (i) Their effect on the intelligibility of speech: (ii) Their use as protection against gun blast. Jun 1944.
40p curves, diagrs, photos, tables. MI \$1.50 Ph \$3.00.
- OSRD 3542 PBL 22470 (2-51)
Pigford, R. L., and Chilton, T. H.
Drop dispersion measurements by use of a laboratory mortar. Apr 1944.
22p photos, diagrs, graphs. MI \$1.50 Ph \$2.00.
- OSRD 3543 PBL 22471 (2-51)
Pigford, R. L., and Chilton, T. H.
The use of thickened vesicants in chemical shells, a literature survey. Apr 1944.
22p tables. MI \$1.50 Ph \$2.00.
- OSRD 3548 PBL 22505 (1-1572)
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Examination of enemy material (OD-113) (AC-77): Metallurgical examination of a series of six 7.9 mm. MG-17 German aircraft gun barrels, 1937-42, and four 13 to 20 mm. Progress report 45, Mar 1, 1944. Apr 1944.
18p photos, tables. MI \$1.50 Ph \$2.00.
- OSRD 3549 PBL 16766 (1-1252)
Pochapsky, T. E., and Hase, W. J.
Damping capacity of heat-resisting metals for gas turbine parts (H-102). Progress report, Sep 1, 1943-Mar 31, 1944. Apr 1944.
39p photo, diagrs. MI \$1.50 Ph \$3.00.
- OSRD 3550 PBL 32194 (2-826)
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Tables of the properties of air along the Hugoniot curve and the adiabatics terminating in the Hugoniot curve. Progress report. Apr 1944.
43p tables. MI \$1.00 Ph \$3.00.
- OSRD 3551 PBA 4202 (1-1454)
Coleman, George H., and others
Preparation and stability of the nitrogen mustards. Progress report, Jun 21, 1943-Jan 8, 1944. Apr 1944.
14p MI \$1.50 Ph \$1.00.
- OSRD 3554 PBL 19578 (1-1410)
Sachs, George, and others
Correlation of information available on the fabrication of aluminum alloys (NA-126): Final report. Section IV, Survey of the properties of new aluminum alloys: Part IV, The aluminum alloy XA75S-sheet. Apr 1944.
100p MI \$1.00 Ph \$7.00.
- OSRD 3557 PBA 4203 (1-351)
Cohen, Barnett, and others
Studies on the kinetics of 8-chloroethylamines and their products in dilute aqueous solution. 1944.
106p Ph \$8.00 MI \$1.50.
- OSRD 3558 PBA 4237 (1-288)
Shreve, Morris R., and others
Mustard gas from thiodiglycol and thionyl chloride.
52p illus. Ph \$4.00 MI \$1.00.
- OSRD 3560 PBL 24904 (2-324)
Ray, Peter
Polyvinyl sheeting exposed to tropical conditions. Mar 1944.
7p tables. MI \$1.50 Ph \$1.00.
- OSRD 3566 PBL 19787 (1-1531)
Blomquist, Alfred T., and Ryan, James F., Jr.
Report on studies related to the stability of PETN, to Feb 29, 1944. May 1944.
44p photos, diagrs, tables. MI \$1.50 Ph \$3.00.
- OSRD 3567 PBA 30746 (2-626)
Cason, James
Studies on nitramines and nitroschydroxylamines. Final report, March 1, 1944. May 1944.
57p MI \$2.00 Ph \$4.00.
- OSRD 3569 PBL 24905 (2-225)
Puckett, Allen E.
The model supersonic wind-tunnel project. Final report. Apr 1944.
108p diagrs, drawings, graphs, photos, plans, tables. MI \$1.50 Ph \$8.00.
- OSRD 3574 PBL 4187 (1-322)
Standard Oil Development Co.
Development of portable flame thrower, E2. Second progress report, April 15, 1944.
83p MI \$1.00 Ph \$6.00.
- OSRD 3579 PBL 22898 (2-36)
Dix, E. H., Jr., and others
Fatigue and impact characteristics and notch effect in tension of artificially-aged aluminum alloys (NA-126). Progress report. Apr 1944.
25p graphs, tables. MI \$1.50 Ph \$2.00.
- OSRD 3580 PBL 22896 (2-38)
Norton, John T., and others
Effect of locked up stresses on ballistic performance of welded armor—Part I. (OD-106). Final report, Feb 1, 1944. Apr 1944.
106p diagrs, graphs, photos. MI \$1.50 Ph \$3.00.
- OSRD 3582 PBL 12062 (1-899)
Berry, R. M., and others
The comparability of formats A and B of the personal inventory. Apr 1944.
8p MI \$1.50 Ph \$1.00.
- OSRD 3584 PBL 16751 (1-1412)
Schuh, A. E., and Boyles, Alfred
Improvements in and extension of centrifugal casting methods for production of miscellaneous war material items (OD-108). Final report, Mar 15, 1944. Apr 1944.
18p MI \$1.50 Ph \$2.00.
- OSRD 3585 PBL 22507 (1-1571)
Grenell, L. H., and others
Examination of enemy material (OD-113) (AC-77): Metallurgical examination of German 50 mm. H. E. shells with long and short cartridge cases. Progress report 50, Mar 23, 1944. Apr 1944.
24p diagrs, photos, tables. MI \$1.50 Ph \$2.00.
- OSRD 3586 PBL 22508 (1-1571)
Grenell, L. H., and others
Examination of enemy material (OD-113) (AC-77): Metallurgical examination of German 50 mm. A. P.-H. E. (mohobloc) shells with long and short cartridge cases. Progress report 47, Mar 15, 1944. Apr 1944.
25p drawings, photos, tables. MI \$1.50 Ph \$2.00.
- OSRD 3587 PBL 22509 (2-67)
Levee, C. E., and others
Examination of enemy material (OD-113) (AC-77): Metallurgical examination of a Japanese aircraft exhaust stack and collector ring. Progress report 48, Mar 21, 1944. Apr 1944.
13p photos. MI \$1.50 Ph \$1.00.
- OSRD 3588 PBL 22510 (1-1567)
Cady, J. R., and others
Examination of enemy material (OD-113) (AC-77): Metallurgical examination of German and Italian 20 mm. armor-piercing ammunition, 1938-43. Progress report 51, Mar 24, 1944. Apr 1944.
27p diagrs, photos, tables. MI \$1.50 Ph \$2.00.
- OSRD 3591 PBL 19552 (1-1353)
Friedrichs, K. O., and others
Theoretical studies on the flow through nozzles and related problems. Apr 1944.
100p diagrs. MI \$1.00 Ph \$7.00.
- OSRD 3593 PBA 4211 (1-369)
Austin, P. R., and others
A study of special fabrics for protection against chemical warfare agents. 1944.
69p illus. Ph \$5.00 MI \$1.00.
- OSRD 3598 PBA 18871 (2-27)
Prescott, Samuel C.
Troop feeding programs: a survey of rationing and subsistence in the United States Army, 1775 to 1940. Final report Mar 1944.
339p tables. MI \$3.50 Ph \$23.00.

- OSRD 3599 PBL 16429 (1-1113)
Tucker, C. W., and others
Residual stresses in cold-drawn nonferrous alloys: An X-ray study, Final report, Part II, Nov 1, 1943-Mar 1, 1944 (DD-25). May 1944.
88p graphs. MI \$1.00 Ph \$7.00.
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19p tables, graph. MI \$.50 Ph \$2.00.
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- OSRD 3601 PBL 31027 (3-51)
Foldy, L. L.
General theory of the propagation of sound through a liquid containing air bubbles. Apr 1944.
51p graphs. MI \$2.00 Ph \$4.00.
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- OSRD 3603 PBA 4199 (1-333)
Carver, E. K., Beguin, A. E., and Calhoun, J. M.
Study of special fabrics for MDRG. Final report, March 10, 1943. 1944.
64p MI \$1.00 Ph \$5.00.
- OSRD 3605 PBL 6018 (1-602)
Bartlett, Paul D., and Lewis, Edward S.
The reactivity of chlorine in BB'-dichloro-diethyl ether, 3,4-dichlorotetrahydrothiophene, and bis-1, 3-dichloro-2-propyl sulfide, to Aug 27, 1943, 1944.
10p MI \$.50 Ph \$1.00.
- OSRD 3607 PBL 19509 (1-1414)
Wyman, L. L.
High temperature properties of light alloys (NA-137): Final report. Part I—Aluminum. Part II—Magnesium. Apr, Sep 1944.
Tables, graphs.
PB 19509 153p MI \$2.00 Ph \$11.00 (OSRD 3607)
PB 19510 109p MI \$1.50 Ph \$ 8.00 (OSRD 4150)
- OSRD 3608 PBL 40612 (3-725)
Foxboro Co., Foxboro, Mass.
Tracking with illuminated and nonilluminated oscilloscopes. Apr 1944.
35p tables, graphs, drawings.
MI \$1.00 Ph \$3.00.
See also PB 40613-PB 40617.
- OSRD 3613 PBL 4445 (1-465)
Covner, B. J., and others
Operation of destroyer and destroyer escort distilling plants. 1944.
14p Ph \$1.00 MI \$.50.
- OSRD 3614 PBL 25408 (2-229)
Jones, S. Murray, and Simmons, Harold M.
Experimental seven man pneumatic life raft No. 1, Jul 1943.
30p drawings, photos. MI \$1.00 Ph \$2.00.
- OSRD 3616 PBL 4198 (1-383)
Perley, G. A., and Eckfeldt, E. L.
Automatic potentiometric recording equipment for determination of chemical warfare agents to March 20, 1944. 1944.
18p MI \$.50 Ph \$2.00.
- OSRD 3617 PBL 23704 (2-672)
Neuman, John von
Proposal and analysis of a new numerical method for the treatment of hydrodynamical shock problems. Mar 1944.
34p curves. MI \$.50 Ph \$3.00.
- OSRD 3618 PBL 18321 (1-1270)
Knauff, E. B.
The precision of internal adjustment settings of the mark 42 rangefinder. (Applied Psychology Panel: Selection and training of fire control-men (R) Rept 3.) Apr 1944.
11p MI \$.50 Ph \$1.00.
- OSRD 3619 PBL 13299 (2-821)
Frederiksen, Norman
Validity of an experimental battery of aptitude tests at the Ordnance and Gunnery Schools, Washington Navy Yard. Apr 1944.
36p tables. MI \$.50 Ph \$3.00.
- OSRD 3620 PBM 5930 (1-429)
Henriques, F. C., and others
The mechanism of cutaneous injury by mustard gas. An experimental study using mustard prepared with radioactive sulfur, to November 10, 1943. 1944.
121p illus. Ph \$9.00 MI \$1.50.
- OSRD 3620-A PBM 5917 (1-560)
Moritz, A. R., and Henriques, F. C., Jr.
Additional studies pertaining to the mechanism of cutaneous injury by mustard gas. An experimental study using mustard prepared with radioactive sulfur, to Oct 1, 1945. 1945.
46p Ph \$4.00 MI \$.50.
- OSRD 3623 PBL 21881 (3-42)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of a Japanese 50 mm. grenade discharger. Progress report 53, Mar 31, 1944. May 1944.
14p photos, tables. MI \$.50 Ph \$1.00.
- OSRD 3624 PBL 16768 (1-1248)
Dowdell, R. L., and others
Density volume changes associated with phase changes in cartridge brass (DD-117): Final report, Jul 9, 1943-Mar 31, 1944. May 1944.
24p photos, tables, graphs. MI \$.50 Ph \$2.00.
- OSRD 3625 PBL 22511 (1-1574)
Grenell, L. H., and others
Examination of enemy material (DD-113) (AC-77): Metallurgical examination of a Japanese rifle 7.7 mm. (caliber .303"), model 99. Progress report 52, Mar 31, 1944. May 1944.
16p photos, table. MI \$.50 Ph \$2.00.
- OSRD 3627 PBL 11216 (1-797)
Kouwenhoven, M. B.
Progress report on the development of methods for determining the proper seating of guiding metal rotating bands on 105 mm. shells in production May 1944.
25p illus. MI \$.50 Ph \$2.00.
- OSRD 3628 PBL 27149 (2-298)
Ingerson, Earl
A method for testing resistance of metals to surface cracking under conditions similar to those obtaining in guns. Nov 1943.
48p photos, tables. MI \$1.00 Ph \$4.00.
- OSRD 3629 PBL 28542 (2-218)
Carnegie Institution of Washington, Mount Wilson Observatory
Tests of aerial camera lenses. Mar 1944.
50p graphs, photos, tables.
MI \$1.00 Ph \$4.00.
- OSRD 3632 PBL 43035 (3-790)
Rose, A.
Improved sensitivity of television equipment. Progress report, Dec 1943-Jan 1944. Jan 1944.
1p MI \$1.00 Ph \$1.00.
- OSRD 3633 PBL 43040 (3-790)
Kell, R. D.
Improved sensitivity of television equipment. Progress report No. 4, Dec 1, 1943-Feb 1, 1944. Feb 1944.
11p photos, diagra. MI \$1.00 Ph \$1.00.
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- OSRD 3636 PBL 21880 (1-1491)
Grenell, L. H.
Examination of enemy material: Metallurgical examination of German 50 mm. A.P.C.-M.E. rounds with long and short cartridge cases. Progress report 54, Apr 7, 1944. May 1944.
29p photos, drawings, tables.
MI \$.50 Ph \$2.00.
- OSRD 3641 PBL 15853 (1-1346)
Feild, A. L., and others
Development of armor welding electrodes (DD-36-2): Influence of the type of armor plate on the properties of armor weldments, Final report, Mar 1944. May 1944.
29p drawings, photos, tables.
MI \$.50 Ph \$2.00.
- OSRD 3643 PBL 21878 (1-1494)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of a Japanese 7.7 mm. model 92 heavy machine gun of 1938. Progress report 57, Apr 15, 1944. May 1944.
14p photos, tables. MI \$.50 Ph \$1.00.
- OSRD 3651 PBL 16467 (1-1109)
Cross, H. C., and Simmons, W. F.
Heat-resisting metals for gas turbine parts (H-102), 1 Sep 43-15 Mar 44, Progress report on, 10 May 1944.
181p photos. MI \$2.00 Ph \$13.00.
- OSRD 3652 See OSRD 3523.
- OSRD 3653 PBL 5935 (1-429)
Herriott, Roger M., and others
Reactions of H. with enzymes and proteins. 1944.
46p illus. MI \$.50 Ph \$4.00.
- OSRD 3658 PBL 11586 (1-674)
Mason, C. W.
Microscopical identification of explosives. Mar 1944.
37p MI \$.50 Ph \$3.00.
- OSRD 3661 PBL 21877 (1-1495)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of sections of 15, 30, and 50 kilogram Japanese antipersonnel bombs. Progress report 58, Par 18, 1944. May 1944.
6p tables. MI \$.50 Ph \$1.00.
- OSRD 3662 PBL 15871 (1-939)
Mehl, Robert F., and others
Improvement in gun steel ingot practices. Progress report. May 1944.
59p tables, diagra. MI \$1.00 Ph \$4.00.

- OSRD 3665 PBL 21876 (1-1482)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of four German duplex welded 37 mm. A. P. rounds and three German 37 mm. A. P. H. E. projectiles. Progress report 55, Apr 14, 1944. May 1944.
17p photos, tables. MI \$1.50 Ph \$2.00.
- OSRD 3667 PBL 5508 (1-483)
Almy, G. M., and others
Three to twenty million volt radiography. Progress report. Section 1. Development of the betatrons. Section 2. Development of porcelain envelope for vacuum tubes. June 1, 1944.
23p MI \$1.50 Ph \$2.00.
- OSRD 3668 PBL 5843 (1-354)
Almy, G. M., and Adams, G. D.
Three to twenty million volt radiography. Summary report on 20,000,000 volt betatron. 17p illus. Ph \$2.00 MI \$1.50.
- OSRD 3670 PBA 4213 (1-348)
Tarbell, D. S., and others
The use of thiocarbazonates as arsenical detectors. 1944.
53p Ph \$4.00 MI \$1.00.
- OSRD 3675 PBL 16472 (1-188)
Voldrich, C. B., and others
Flash welding of alloy steels for ordnance. Progress report, Oct 15, 1943-Jan 15, 1944. Apr 1944.
64p tables, diagrs, photos. MI \$1.00 Ph \$5.00.
- OSRD 3677 PBL 5509 (1-412)
Burrill, E. A., Jr.
A summary report on the application of high voltage electrostatic x-ray generators to radiography. 1944.
32p illus. Ph \$3.00 MI \$1.50.
- OSRD 3681 PBL 19776 (1-1366)
Dienel, H. F.
Sound level measurements in U. S. Military airplanes, volume 2. Jun. 1944.
75p MI \$1.00 Ph \$5.00.
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- OSRD 3682 See OSRD 1524.
- OSRD 3683 See OSRD 1524.
- OSRD 3689 PBL 16471 (1-188)
Voldrich, C. B., and others
Flash welding of alloy steels for ordnance. Progress report, Jan 15, 1944-Mar 15, 1944. May 1944.
65p diagrs, graphs, photomicrographs. MI \$1.00 Ph \$5.00.
- OSRD 3692 PBL 33248 (3-54)
White, Harvey E.
The use of red light for under water searching in shallow sea water. Apr 1944.
8p photo, diagrs. MI \$1.00 Ph \$1.00.
- OSRD 3694 PBL 16767 (1-1246)
Butts, Allison, and Frye, John H.
Investigation of the effects of impurities on the ferro-magnetism of nonferrous alloys (OD-156). Progress report, Jan 15-Apr 15, 1944. May 1944.
35p diagrs, tables, graphs. MI \$1.50 Ph \$3.00.
- OSRD 3695 PBL 20208 (1-1488)
Clark, D. S., and others
Behavior of metals under dynamic conditions (NO-11) (NS-109): Influence of impact velocity on the tensile properties of NE 8715, NE 9415, SAE 1045, and SAE 1090 steels. Progress report, Mar 15, 1944. May 1944.
51p photomicrographs, graphs, tables. MI \$1.00 Ph \$4.00.
- OSRD 3696 PBL 20207 (1-1489)
Domez, P. L., and others
Behavior of metals under dynamic conditions (NO-11) (NS-109): Influence of impact velocity on the tensile properties of furniture steel sheets. Progress report, Mar 24, 1944. May 1944.
37p photos, drawings, diagrs, graphs. MI \$1.50 Ph \$3.00.
- OSRD 3698 PBL 33210 (2-970)
DeGamo, E. Paul, and others
Residual stresses in ship welding. Progress report, Nov 1, 1943-Feb 29, 1944. May 1944.
51p diagrs, graphs, tables. MI \$2.00 Ph \$4.00.
See also PB 33209, PB 33211, and PB 61376.
- OSRD 3699 PBL 8350 (1-536)
Aston, J. G.
Tests of performance of portable unit columns for air rectification, to Jan 6, 1944. 1944.
267p illus. MI \$3.00 Ph \$18.00.
- OSRD 3702 PBL 19830 (1-1579)
Stout, R. D., and others
Methods of testing weldability of steel plates and shapes: Part 1. Final report, Mar 1, 1944. May 1944.
34p diagrs, drawings, photos, tables. MI \$1.50 Ph \$3.00.
- OSRD 3703 PBL 21879 (1-1482)
Gembrill, C. M., and others
Examination of enemy material: Analysis of captured Japanese ethyl fluid. Progress report 55, Apr 8, 1944. May 1944.
6p MI \$1.50 Ph \$1.00.
- OSRD 3711 PBL 50835 (4-482)
Crawford, Bryce L., Jr.
Rocket fundamentals. May 1944.
251p drawings, graphs, tables. MI \$6.00 Ph \$17.00.
- OSRD 3712 PBL 18369 (1-1271)
Lindsley, Donald B., and others
A validation study of oscilloscope operator tests. Apr 1944.
13p tables. MI \$1.50 Ph \$1.00.
- OSRD 3713 PBL 19545 (1-1487)
Barrett, Charles S., and others
Deformation characteristics of magnesium alloys: Third quarterly progress report (MA-148): Dec 15, 1943-Mar 15, 1944. May 1944.
44p MI \$1.50 Ph \$3.00.
- OSRD 3714 PBL 15621 (1-1012)
Dickinson, Roscoe G., and Kraus, Douglas L.
A remote indicating cup anemometer with magnetic coupling. (Progress report) to April 10, 1944. May 1944.
33p tabs, graphs, photos, drawings, diagrs. MI \$1.50 Ph \$3.00.
- OSRD 3716 PBL 21873 (1-1417)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of two German 10.5 cm. A. P. C., E. C. rounds. Progress report 61, May 1, 1944. Jun 1944.
15p photos. MI \$1.50 Ph \$1.00.
- OSRD 3721 PBL 28702 (2-376)
Mayall, H. U.
Pursuit curve characteristics. Apr 1944.
108p graphs, curves. MI \$3.00 Ph \$8.00.
- OSRD 3722 PBL 28543 (2-834)
Carnegie Institution of Washington, Mount Wilson Observatory
Graphs of pursuit curve characteristics, for a pursuit plane flying directly toward the target. Feb 1944.
30p tables, graphs. MI \$1.00 Ph \$2.00.
- OSRD 3723 PBL 18322 (1-1270)
Knauff, E. B.
The accuracy and precision of student operators' zero-sets on the mark 4 radar. (Applied Psychology Panel: Selection and training of fire controlmen (R) Rept 4.) May 1944.
12p MI \$1.50 Ph \$1.00.
- OSRD 3724 PBL 43044 (3-790)
Rose, Albert, and others
The image orthicon: A description of its construction and operation. Feb 1944.
39p photos, drawings. MI \$1.00 Ph \$3.00.
- OSRD 3725 PBL 43046 (3-853)
Cawein, Madison
Standard disector comparison camera, model #2. Final report. Mar 1944.
32p photos, diagrs, curves. MI \$1.00 Ph \$3.00.
- OSRD 3743 PBL 16757 (1-1022)
Boogehold, A. L., and Weinman, E. W.
Heat treatment of national emergency steels for use in tanks, combat cars, gun mounts, and other ordnance material (OD-115). Progress report, Oct 1-Feb 24, 1944. Jun 1944.
58p tables, graphs. MI \$1.00 Ph \$4.00.
- OSRD 3744 See OSRD 3143.
- OSRD 3745 PBL 21875 (1-1485)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of one 120 mm. Japanese high-explosive naval projectile and three fuzes. Progress report 59, Apr 25, 1944. Jun 1944.
22p tables. MI \$1.50 Ph \$2.00.
- OSRD 3746 PBL 21874 (1-1485)
Grenell, L. H.
Examination of enemy material: Metallurgical examination of six rounds of Japanese 20 mm. H. E. ammunition. Progress report 60, May 1, 1944. Jun 1944.
18p MI \$1.50 Ph \$2.00.
- OSRD 3747 PBL 12166 (1-769)
Seashore, Harold, and Stuntz, Stephen
Training radio operators to copy code through interference. Jun 1944.
15p MI \$1.50 Ph \$1.00.
- OSRD 3748 PBL 12169 (1-902)
Haagen, C. Hess
Intelligibility measurement: Techniques and procedures used by the Voice Communication Laboratory. May 1944.
21p MI \$1.50 Ph \$2.00.

- OSRD 3753 PBL 63633 (5-213)
England, J. L.
A-93M. Apparatus for collecting solid particles discharged from a rifle: A-94M. A simple optical sighting device. May 1944.
6p photos. MI \$1.00 Ph \$1.00.
- OSRD 3755 PBL 12061 (1-1042)
Shipley, M. C., and others
A comparison of personal inventory scores with service records one year after testing. Jun 1944.
17p MI \$0.50 Ph \$2.00.
- OSRD 3756 PBL 13298 (1-982)
Satter, G. A.
Selection of items for the U. S. Navy general classification test—Form 2, and the U. S. Navy test of reading and arithmetical reasoning—Form 2. Jun 1944.
43p MI \$0.50 Ph \$3.00.
- OSRD 3758 PBA 22472 (2-238)
National Research Corporation, Boston
Report of lithium research, Mar 15, 1943. Jun 1944.
22p diagrs, tables. MI \$0.50 Ph \$2.00.
- OSRD 3760 See OSRD 3523.
- OSRD 3761 PBL 4609 (1-442)
Standard Oil Development Co.
High altitude flight tests of aimable clusters for the AM-M69 bomb. 1944.
60p illus. Ph \$4.00 MI \$1.00.
- OSRD 3762 PBL 5242 (1-701)
Texas Co., Beacon Laboratory
Development of incendiary fuels. Jun 1944.
88p MI \$1.00 Ph \$6.00.
- OSRD 3763 PBA 4626 (1-275)
Kirkpatrick, E. C.
Methacrylate Interpolymers as gasoline thickening agents. 1944.
16p Ph \$2.00 MI \$0.50.
- OSRD 3768 PBL 9414 (1-605)
Lobo, M. E., and Williams, B.
Liquid air fractionation, to May 15, 1944.
402p illus. MI \$4.50 Ph \$27.00.
- OSRD 3770 PBL 15870 (1-941)
Wells, Cyril, and Mehl, Robert F.
Improvement in wrought gun tubes. Progress report. Jun 1944.
24p MI \$0.50 Ph \$2.00.
- OSRD 3772 PBA 5960 (1-373)
McIntyre, G. H., and Elliott S. B.
Aluminum soaps for thickening gasoline. 1944.
26p illus. MI \$0.50 Ph \$2.00.
- OSRD 3774 PBL 15616 (1-1216)
Klotz, Irving M.
Factors in canister design and tube testing: critical bed depth and the nature of gas flow through charcoal. Progress rept. to May 18, 1944. Jun 1944.
24p graphs, tables. MI \$0.50 Ph \$2.00.
- OSRD 3775 PBL 26993 (2-156)
Kratz, A. P., and others
Study of the use of air curtains for fog dissipation. Progress report, Mar 31, 1944. Jun 1944.
61p photos, tables, graphs, drawings. MI \$2.00 Ph \$5.00.
- OSRD 3776 PBA 15615 (1-986)
Pease, Robert M., and McLean, John M.
Charcalite: a calcium chloride impregnated charcoal drying agent. (Progress report) to May 20, 1944. Jun 1944.
14p tabs. MI \$0.50 Ph \$1.00.
- OSRD 3778 PBL 18323 (1-1268)
Adams, J. K., and Fowler, H. M.
Report on the reliability of two forms of an activity preference blank. (Applied Psychology Panel: Selection and training of fire controlmen (R). Rept 5.) Jun 1944.
72p tables. MI \$1.00 Ph \$5.00.
- OSRD 3780 PBL 32223 (2-826)
Kirkwood, John G., and others
Buckling instability of thin cylindrical shells under external static loading. Progress report. Jun 1944.
25p graph, tables. MI \$1.00 Ph \$2.00.
- OSRD 3785 PBL 4613 (1-331)
Wright, M. F., and others
Installation of aerial odograph in OA10 43-43843. 1944.
14p illus. Ph \$1.00 MI \$0.50.
- OSRD 3787 PBA 28551 (2-303)
California Institute of Technology
Studies and investigations in connection with the development of hard protective coatings for optical plastics. May 1944.
74p tables, diagr. MI \$2.00 Ph \$5.00.
See also PB 28552.
- OSRD 3791 PBL 19501 (1-1248)
Dorn, John E., and Thomsen, Erich G.
Formability of magnesium alloy sheet (NA-146): Final report, Part IV—Forming stretch flanges in the Guerin press, Apr 15, 1944. Jun 1944.
50p photos, curves. MI \$0.50 Ph \$4.00.
- OSRD 3792 PBL 19518 (1-1578)
Jackson, L. R., and others
Fatigue properties of magnesium alloys and structures: Fatigue properties of magnesium alloy sheet—Part II (NA-145). Final report Mar., 1944. Jun 1944.
89p photos, drawing, curves. MI \$1.00 Ph \$6.00.
- OSRD 3795 PBL 4614 (1-330)
Agy, V. L.
Tests on aerial odograph in PBL-35 No. 01877, December 10, 1943, to January 28, 1944 at U. S. Naval Air Station, Quonset Point, R. I. 1944.
12p illus. Ph \$1.00 MI \$0.50.
- OSRD 3796 PBL 24906 (2-212)
Eyring, Henry, and others
The chemical reaction in a detonation wave. Progress report. Jun 1944.
68p graphs, tables. MI \$1.00 Ph \$5.00.
- OSRD 3797 PBL 18330 (1-1273)
Ellaon, D. G., and Imus, H. A.
Memorandum on the construction and calibration of the MDRC Interpupillometer. Jun 1944.
12p MI \$0.50 Ph \$1.00.
- OSRD 3798 PBL 31025 (2-951)
Shrader, E. F.
Production testing of projectors. May 1944.
79p curves, diagrs, drawings, photos. MI \$2.00 Ph \$8.00.
- OSRD 3799 PBL 39713 (3-586)
Nielsen, Harold H., and Bell, Ely E.
Transmission of infrared radiation through atmospheric media. Progress report. May 1944.
64p graphs, tables. MI \$2.00 Ph \$5.00.
- OSRD 3800 PBL 9415 (1-603)
Collins, S. C., and McMahon, H. O.
A light-weight, automatic, mechanical oxygen generator, to May 31, 1944. 1944.
65p illus. MI \$1.00 Ph \$5.00.
- OSRD 3801 PBL 43041 (3-865)
Kell, R. D.
Improved sensitivity of television equipment. Progress report No. 5, Feb 1—Apr 1, 1944. Apr 1944.
27p photos, diagrs. MI \$1.00 Ph \$2.00.
See also PB 43037—PB 43040.
- OSRD 3802 PBL 22848 (1-1600)
Egan, J. P.
Articulation testing methods II. Nov 1944.
95p tables, graphs. MI \$1.00 Ph \$7.00.
- OSRD 3803 PBA 16418 (1-1200)
Pennsylvania University. The Johnson Foundation
Report on crosatin as a treatment for fungus proofing optical instrument. Jun 1944.
27p photos. MI \$0.50 Ph \$2.00.
- OSRD 3804 PBA 11572 (1-905)
Hason, C. W.
Drop reactions for the microscopical identification of arsenical chemical warfare agents. May 1944.
37p illus. MI \$0.50 Ph \$3.00.
- OSRD 3805 PBL 13116 (1-805)
Agy, Vaughn L.
Report on tests of aerial odograph in RA-29 at Wright Field, Dayton, Ohio from February 2, 1944 to April 13, 1944. Jun 1944.
5p MI \$0.50 Ph \$1.00.
- OSRD 3812 PBL 21869 (1-1407)
Anthony, H. L.
Examination of enemy materiel: Metallurgical examination of two Japanese oxygen cylinders. Progress report 71, May 17, 1944. Jun 1944.
12p photos. MI \$0.50 Ph \$1.00.
- OSRD 3813 PBL 21870 (1-1407)
Grenell, L. H.
Examination of enemy materiel: Metallurgical examination of the Japanese 80 mm. high-explosive naval projectiles. Progress report 67, May 15, 1944. Jun 1944.
12p photos. MI \$0.50 Ph \$1.00.
- OSRD 3814 PBL 21871 (1-1498)
Grenell, L. H., and others
Examination of enemy materiel: Metallurgical examination of a Japanese 1/3 KG anti-parked aircraft bomb. Progress report 63, May 9, 1944. Jun 1944.
7p photos. MI \$0.50 Ph \$1.00.
- OSRD 3817 PBL 12167 (1-982)
Seashore, H., and others
A comparative study of three methods of teaching code in the early weeks of the course. Jun 1944.
38p MI \$0.50 Ph \$2.00.

- OSRD 3818 PBL 21872 (1-1417)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of German 20 mm. MG-151 Mauser aircraft machine gun. Progress report 65, May 11, 1944. Jun 1944.
21p photos. MI \$5.00 Ph \$2.00.
- OSRD 3821 PBL 4232 (1-288)
Salzberg, P. L., and others
Non-irritant protective ointments, 1944.
18p Ph \$1.00 MI .50.
- OSRD 3827 PBL 19832 (2-38)
McMaster, R. C., and others
Radiographic and fluoroscopic methods of inspection of spot welds in aluminum alloys, Parts I and II, Final report, Jan-Sep 1944.
Graphs, tables, photos.

PB	Pt	P	MI	Ph
19832	I	195	\$2.00	\$13.00
19826	II	178	2.00	12.00
- OSRD 3829 PBL 4231 (1-285)
Price, Charles C., and others
A pellet DBT test for Lewisite and similar arsenical CW agents in water. 1944.
9p MI \$5.00 Ph \$1.00.
- OSRD 3830 PBA 6020 (1-533)
Yoe, John H., and others
Determination of fluorine in fluoro-organic compounds in low concentrations in air. 1944.
20p MI .50 Ph \$2.00.
- OSRD 3830a Suppl PBA 6021 (1-574)
Yoe, John H., and others
Determination of fluorine in fluoro-organic compounds in low concentrations in air, supplement, to Jun 6, 1944. 1944.
2p illus. MI \$5.00 Ph \$1.00.
- OSRD 3834 PBL 27294 (2-657)
Churchill, H. E.
Development and tests of modification equipment for amphibious or jungle operation and improved deep water track propulsion of H-29 cargo carrier light. Final report. Apr. 1944.
105p photos, graphs, diagrams. MI \$3.00 Ph \$7.00.
- OSRD 3835 PBL 25407 (2-383)
Hecker, Lawrence G., and Muttall, Clifford J., Jr.
Sparkman and Stephens, Inc., project No. 500, summary report covering: 1. Track propelled amphibians and conversions that Sparkman & Stephens, Inc., has assisted in developing; 2. The use of completely submerged tracks for propulsion in the water. May 1944.
142p diagrams, graphs, photos, tables. MI \$3.00 Ph \$10.00.
- OSRD 3836 PBL 21854 (1-1435)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of a Japanese naval aircraft gear oil pump. Progress report 64, May 10, 1944. Jun 1944.
12p photos. MI \$5.00 Ph \$1.00.
- OSRD 3837 PBL 20206 (1-1577)
Duwez, P. L., and Clark, D. S.
Behavior of metals under dynamic conditions: (NO-11) (MS-109): Influence of impact velocity on the tensile properties of some metals and alloys. Progress report, Apr. 15, 1944. Jun 1944.
40p curves, diagrams, drawings, tables. MI \$5.00 Ph \$3.00.
- OSRD 3838 PBL 21868 (1-1435)
Lavos, C. E., and others
Examination of enemy material: Metallurgical examination of three types of Japanese aircraft exhaust valves and two types of intake valves. Progress report 65, May 12, 1944. Jun 1944.
18p photos. MI \$5.00 Ph \$2.00.
- OSRD 3839 PBL 21855 (1-1405)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of Japanese 63 kilogram bombs, fuzes, and gages. Progress report 62, May 8, 1944. Jun 1944.
20p photos, tables. MI \$5.00 Ph \$2.00.
- OSRD 3841 PBL 43056 (3-727)
Shiffman, Max, and Friedman, Bernard
On the best location of a mine near the sea bed. May 1944.
76p tables, graphs. MI \$2.00 Ph \$5.00.
- OSRD 3843 PBL 21856 (1-1405)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of six rounds of Japanese 20 mm. A. P. ammunition. Progress report 72, May 18, 1944. Jun 1944.
14p photos. MI \$5.00 Ph \$1.00.
- OSRD 3844 PBL 21867 (1-1404)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of Japanese 25 mm. Hotchkiss incendiary and M. E. incendiary tracer rounds. Progress report 68, May 15, 1944. Jul 1944.
19p photos, tables. MI \$5.00 Ph \$2.00.
- OSRD 3845 PBL 21857 (1-1435)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of a Japanese Sakae-12 engine oil tank. Progress report 69, May 15, 1944. Jul 1944.
20p photos. MI \$5.00 Ph \$2.00.
- OSRD 3846 PBL 21858 (1-1491)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of Czechoslovakian tank armor plate. Progress report 75, Jun 2, 1944. Jul 1944.
7p photos, tables. MI \$5.00 Ph \$1.00.
- OSRD 3853 PBL 25404 (2-381)
Baker, J. G.
A combat vehicle of high mobility designed for transportation by air. Final report. Jun 1944.
18p drawings, photos. MI \$1.00 Ph \$2.00.
- OSRD 3858 PBL 18374 (1-1274)
Lindsay, Donald B., and others
Comparison of range tracking methods: tracking to a fixed hairline versus tracking to a rotating hairline. Jul 1944.
11p tables. MI \$5.00 Ph \$1.00.
- OSRD 3859 PBL 15633 (1-1444)
Rouse, Hunter
Wing-tunnel studies of the diffusion of gas in schematic urban districts, to December 31, 1943. Jul 1944.
22p diagrams, graphs, photos. MI \$5.00 Ph \$2.00.
- OSRD 3861 See OSRD 3523.
- OSRD 3862 PBL 12171 (1-900)
Curtis, James F.
Report on training studies in voice communication: 1. Can intelligibility of voice communication be increased by training in voice technique? Jul 1944.
23p MI \$5.00 Ph \$2.00.
- OSRD 3863 PBL 12168 (1-902)
Hibbitt, George W., Mallory, Louis A.
Experimental investigation of a course for telephone talkers. Jul 1944.
13p MI \$5.00 Ph \$1.00.
- OSRD 3864 PBL 12142 (1-1252)
Miklowitz, J.
The propagation of the plastic zone along a tension bar of material having a well-defined plastic limit. Jul 1944.
60p MI \$1.00 Ph \$4.00.
- OSRD 3866 PBL 34128 (3-48)
U. S. National Defense Research Committee and others
The effect of imperfections in the reticle field of stereoscopic range finders. Report to the services No. 83: Div. 7, Fire Control. Jul 1944.
29p MI \$1.00 Ph \$2.00.
- OSRD 3868 PBL 15261 (1-1250)
Herzfeld, K. F., and Griffing, Virginia
Deduction of practical formulas for the stress in the mantle of a shell due to band pressure and powder-gas pressure. Jun 1944.
27p diagrams. MI \$5.00 Ph \$2.00.
- OSRD 3869 PBA 63634 (5-286)
Jensen, Einar
Notes on the potentiometric titration of iron. Jul 1944.
11p diagr, graph, table. MI \$1.00 Ph \$1.00.
- OSRD 3872 PBL 31028 (3-51)
Carstensen, E. L., and Foldy, L. L.
Propagation of sound through a liquid containing bubbles. Part II: Experimental results and theoretical interpretation. Jun 1944.
85p graphs, drawings. MI \$2.00 Ph \$6.00.
For Part I see PB 31027.
- OSRD 3875 PBL 30764 (2-556)
Carter, R. O., Jr., and others
Modified Devarda method for the determination of nitrogen in nitrocellulose. Progress report. Jul 1944.
8p diagr. MI \$1.00 Ph \$1.00.
- OSRD 3876 PBL 4022 (1-406)
Smith, Kensley R., and others
Memorandum on how to teach gunnery. 1946.
24p Ph \$2.00 MI \$5.00.
- OSRD 3885 PBL 19829 (2-41)
Zickrick, Lyall, and others
Bi-metallic copper-steel driving bands for projectiles: (NO-159), Part I—Experimental driving bands for the naval 40 mm. projectile; Part II—Centrifugal casting of duplex copper-steel tubing for driving bands. Final report. Jul 1944.
43p photos. MI \$5.00 Ph \$3.00.

- OSRD 3886 PBL 20205 (1-1500)
Dweez, P. E., and others
Behavior of metals under dynamic conditions (MS-109). The propagation of plastic strain in compression. Progress Report, May 15, 1944. Jul 1944.
51p drawings, graphs, tables. MI \$1.00 Ph \$4.00.
- OSRD 3888 PBL 16463 (1-1044)
University of Rochester, Institute of Optics
Design of wide-angle telescopes for tanks. Dec 1943.
16p diagrs. MI \$.50 Ph \$2.00.
- OSRD 3891 PBL 21862 (1-1434)
Grenell, L.H., and others
Examination of enemy material: Metallurgical examination and performance tests of a Japanese Yokogawa aircraft magneto. Progress report 70, Jun 16, 1944. Jul 1944.
19p photos. MI \$.50 Ph \$2.00.
- OSRD 3892 PBL 21863 (1-1566)
Grenell, L.H., and others
Examination of enemy material: Metallurgical examination of a Japanese Navy 1 KVA alternating current generator repair kit. Progress report 78, Jun 8, 1944. Jul 1944.
9p photos. MI \$.50 Ph \$1.00.
- OSRD 3893 PBL 21864 (1-1407)
Grenell, L.H., and others
Examination of enemy material: Metallurgical examination of armor plate from Japanese type I.F. "Oscar" Mark II SE fighter. Progress report 79, Jun 8, 1944. Jul 1944.
10p photos. MI \$.50 Ph \$1.00.
- OSRD 3894 PBL 21859 (1-1495)
Grenell, L.H., and others
Examination of enemy material: Metallurgical examination of Japanese 70 mm. and 75 mm. H.E. ammunition. Progress report 74, May 31, 1944. Jul 1944.
14p tables, photos. MI \$.50 Ph \$1.00.
- OSRD 3895 PBL 21860 (1-1494)
Grenell, L.H., and others
Examination of enemy material: Metallurgical examination of four Japanese 50 mm. grenades and six fuzes. Progress report 76, Jun 3, 1944. Jul 1944.
13p tables, photos. MI \$.50 Ph \$1.00.
- OSRD 3896 PBL 21861 (1-1404)
Grenell, L.H., and others
Examination of enemy material: Metallurgical examination of Japanese 37mm. high explosive shells. Progress report 77, Jun 7, 1944. Jul 1944.
7p photos. MI \$.50 Ph \$1.00.
- OSRD 3900 PBL 24907 (2-215)
Messery, G.W.
The use of rotating drum camera for the measurement of the velocities of shell or bomb fragments. Progress report, Apr 25, 1944. Jul 1944.
31p diagrs, graphs, tables. MI \$.50 Ph \$3.00.
- OSRD 3902 PBA 32199 (2-867)
McGraw, F.C.
The preparation of solid materials for dispersion as aerosols. Final report to May 10, 1944. Jul 1944.
41p photos, microphotographs, drawings, tables. MI \$1.00 Ph \$3.00.
- OSRD 3903 PBL 12086 (1-877)
Ladenburg, Rudolf, and Winckler, John
Description of flash Integrator—Model I. May 1944.
11p MI \$.50 Ph \$1.00.
- OSRD 3904 PBL 5502 (1-1289)
Bakelite Corp., Research and Development Dept.
Effects of atmospheric exposure on paints previously submerged in the sea. Progress report, period ending May 31, 1944. Jan 1946.
11p MI \$.50 Ph \$1.00.
- OSRD 3905 See OSRD 1524.
- OSRD 3908 PBL 4444 (1-500)
Covner, B. J., and others
Lesson plans for 3"/50 gunnery instruction, destroyer escort patrol frigate crews. 1944.
12p Ph \$1.00 MI \$.50.
- OSRD 3914 PBA 4218 (1-353)
Yoe, John H., and Overholser, Lyle G.
Studies of the determination of the acidity of CC. 1944.
13p Ph \$1.00 MI \$.50.
- OSRD 3917 PBL 21865 (1-1407)
Genslein, E.W., and others
Examination of enemy material: Metallurgical examination of two Japanese 7.7 mm aircraft machine guns of 1938 and 1942. Progress report 81, Jun 9, 1944. Jul 1944.
23p photos. MI \$.50 Ph \$2.00.
- OSRD 3918 PBL 21866 (1-1496)
Grenell, L.H., and others
Examination of enemy material: Metallurgical examination of three 40 mm. Japanese naval projectiles. Progress report 82, Jun 12, 1944. Jul 1944.
16p photos. MI \$.50 Ph \$2.00.
- OSRD 3919 PBL 21853 (1-1404)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of Japanese .30 caliber and .50 caliber disintegrating cartridge link belts. Progress report 83, Jun 14, 1944. Jul 1944.
6p photos, tables. MI \$.50 Ph \$1.00.
- OSRD 3920 PBL 22512 (2-67)
Grenell, L. H., and others
Examination of enemy material (OD-113) (AC-77): Metallurgical examination of a Japanese aircraft oil radiator. Progress report 84, Jun 17, 1944. Jul 1944.
9p photos, tables. MI \$.50 Ph \$1.00.
- OSRD 3921 PBL 22513 (2-67)
Grenell, L. H., and others
Examination of enemy material (OF-113) (AC-77): Metallurgical examination of selected parts from Japanese type 100, radial, 1450 h.p., aircraft engines. Progress report 80, Jun 9, 1944. Jul 1944.
20p photos. MI \$.50 Ph \$2.00.
- OSRD 3922 PBL 22514 (2-67)
Mardone, R. M.
Examination of enemy material (OD-113) (AC-77): Design features and performance characteristics of the Japanese hand and electric inertia starter. Progress report 86, Jun 23, 1944. Jul 1944.
14p curves, photos. MI \$.50 Ph \$1.00.
- OSRD 3923 PBA 4230 (1-355)
Bell, Eric G., and others
A study of the composition of the blood and urine of rabbits and rats as affected by the administration of H. 1944.
13p Ph \$1.00 MI \$.50.
- OSRD 3928 PBL 4229 (1-447)
Woodhouse, J.C., and others
Storage characteristics and stabilization of HN-1 and HN-3. 1944.
18p Ph \$2.00 MI \$.50.
- OSRD 3929 PBA 4235 (1-287)
Elley, H.W., and others
The preparation of ethanedithiol. 1944.
30p illus. Ph \$2.00 MI \$.50.
- OSRD 3930 PBA 4201 (1-285)
Woodhouse, J. C., and others
Ultra-violet absorption studies of Levinstein mustard. (OSRD 3930). 1944.
9p illus. Ph \$1.00 MI \$.50.
- OSRD 3932 PBL 22871 (2-246)
Jessup, Ralph S., and Prosen, Edward J.
Heats of combustion of celluloses and nitro-celluloses. Jul 1944.
20p tables. MI \$.50 Ph \$2.00.
- OSRD 3940 PBL 19500 (1-1248)
Dorn, John E., and others
Formability of magnesium alloy sheet (MA-146): Final report, Part V, Forming shrink flanges on the Guerin press, Jun 14, 1944. Jul 1944.
55p photos, drawings. MI \$1.00 Ph \$4.00.
- OSRD 3945 PBL 33348 (3-24)
Heese, G. E.
Road delineation and nocturnal vehicular driving with ultraviolet radiation. Demonstration conducted by the Quartermaster Board, Camp Lee, Va. Supplementary report. Apr. 1944.
15p photos. MI \$1.00 Ph \$1.00.
See also PB 33367.
- OSRD 3947 PBL 33368 (2-863)
Fonda, G. R.
Survey of zinc sulfide phosphors capable of stimulation. Report III. Jul 1944.
13p graphs, diagrs. MI \$1.00 Ph \$1.00.
- OSRD 3948 PBL 33362 (2-824)
Rochester Button Company
The manufacture of autocollimating lens units. Final report. Jul 1944.
2p MI \$1.00 Ph \$1.00.
- OSRD 3950 PBL 32188 (2-828)
Rice, O.K., and Ginell, Robert
The pressure wave produced by an underwater explosion: Part VIII. The case of cylindrical symmetry, II. Progress report. Jul 1944.
57p curves, tables. MI \$2.00 Ph \$4.00.
- OSRD 3952 PBL 16453 (1-1200)
Pennsylvania, University of
Report on methods of prevention of fungus fouling of optical instruments in the Canal Zone. Jul 1944.
9p drawing. MI \$.50 Ph \$1.00.
- OSRD 3957 PBL 20203 (1-1489)
Dweez, P.E., and Clark, D.S.
Behavior of metals under dynamic conditions (MS-109): A preliminary investigation of the mechanism of penetration from the standpoint of strain propagation. Progress report, Jun 1, 1944. Jul 1944.
15p photos, graphs. MI \$.50 Ph \$1.00.

- OSRD 3958 PBA 4209 (1-285)
Northrop, John H.
Potentiometric titration of HN_3 solutions with silver nitrate. 1944.
9p diagrams. Ph \$1.00 Mi \$.50.
- OSRD 3960 PBL 34767 (3-267)
Newton, R. R., and Rosser, J. B.
Preliminary report on the motion of a fin-stabilized rocket during the burning period. Aug. 1944.
12p graphs. Mi \$1.00 Ph \$1.00.
See also PB 34768.
- OSRD 3961 PBL 18331 (1-1268)
Beier, D. C., and others
Lesson plans on selection and training for rangefinder officers' course, fire controlmen (0), rangefinder operators, naval training schools, Fort Lauderdale, Florida. Jul 1944.
33p Mi \$.50 Ph \$3.00.
- OSRD 3962 PBL 12059 (1-899)
Berry, R. W., and others
Results from the long and short forms of the personal inventory and the general classification test. Jul 1944.
11p Mi \$.50 Ph \$1.00.
- OSRD 3963 PBL 12060 (1-1042)
Shipley, W. C., and Graham, C. H.
Final report in summary of research on the personal inventory and other tests. Aug 1944.
39p Mi \$.50 Ph \$3.00.
- OSRD 3964 PBA 4207 (1-352)
Fuson, R. C.
The behavior of hexamine in Levinstein mustard. 1944.
32p Ph \$3.00 Mi \$.50.
- OSRD 3966 PBL 22515 (1-1575)
Grenell, L. H., and others
Examination of enemy materiel (00-113) (AC-77): Metallurgical examination of Japanese 81 mm. high explosive light mortar shell complete with type 93 fuze. Progress report 87, Jun 27, 1944. Jul 1944.
9p photos. Mi \$.50 Ph \$1.00.
- OSRD 3967 PBL 22516 (2-67)
Grenell, L. H., and others
Examination of enemy materiel (00-113) (AC-77): Metallurgical examination of a Japanese Sakae-12 aircraft engine mount. Progress report 73, Jun 24, 1944. Jul 1944.
11p diagrs, tables, photos. Mi \$.50 Ph \$1.00.
- OSRD 3969 PBL 18324 (1-1181)
Adams, J. K., and others
A test-retest reliability study of the Bausch and Lomb ortho-rater with naval personnel. (Applied Psychology Panel: Selection and training of rangefinder and radar operators. Rept 6.) Aug 1944.
36p diagrs. Mi \$.50 Ph \$3.00.
- OSRD 3970 PBM 18325 (1-1181)
Adams, J. K., and others
The influence of the visual tasks required of the personnel in the 16 weeks fire controlmen (0) training course upon their visual proficiency. (Applied psychology panel: Selection and training of rangefinder and radar operators Rept. 7.) Aug 1944.
- OSRD 3972 See OSRD 3523.
- OSRD 3975 PBA 15614 (1-986)
Mills, Gordon F., and Dickinson, B. W.
Use of aminated phenol-formaldehyde xerogels as gas adsorbents (Progress report) to June 28, 1944. Aug 1944.
10p tabs. Mi \$.50 Ph \$1.00.
- OSRD 3978 PBL 13297 (1-904)
Peterson, D. A.
A statistical evaluation of the United States Navy officer qualification test—Forms 2 and 3. Aug 1944.
46p Mi \$.50 Ph \$4.00.
- OSRD 3983 PBA 18865 (2-84)
Brewer, S. D.
Studies on the stability of PETN and penta-lite: Progress report, Jun 1944. Aug 1944.
96p graphs, photos, diagrs. Mi \$1.00 Ph \$7.00.
Appendix III gives corrections to OSRD 1414, PB 18864, by Russell McGill, also on this subject.
- OSRD 3989 PBL 28618 (2-437)
McAdams, W. H., and Neas, C. C.
Development of portable generator for repressurizing bottles for portable flame throwers. Progress report. Aug 1944.
36p diagrs, table. Mi \$1.00 Ph \$3.00.
- OSRD 3990 PBL 28605 (2-391)
Kissam, Philip
Soundings and beach contours with airplane cameras mounted athwartships. Aug 1944.
7p Mi \$1.00 Ph \$1.00.
- OSRD 3993 PBA 4215 (1-480)
Mason, C. W., and others
Microscopical properties of oxidation derivatives of arsenicals. 1944.
60p illus. Ph \$4.00 Mi \$1.00.
- OSRD 3994 PBA 4234 (1-347)
Mason, C. W., and Delamater, G. B.
Drop reactions for the microscopical identification of nitrogen mustards. 1944.
17p illus. Ph \$2.00 Mi \$.50.
- OSRD 3995 PBA 4233 (1-287)
Mason, C. W., and others
Microscopical properties of derivatives of nitrogen mustards with picric acid. 1944.
21p Mi \$.50 Ph \$2.00.
- OSRD 3996 PBA 4200 (1-480)
Mason, C. W., and Delamater, G. B.
Microscopical properties of derivatives of arsenicals with N-pentamethylenedithiocarbamate. 1944.
53p illus. Ph \$4.00 Mi \$1.00.
- OSRD 3997 PBL 18329 (1-1273)
Knauff, E. B.
The precision of internal adjustment settings by student operators and experienced operators on stereoscopic rangefinders. Aug 1944.
13p Mi \$.50 Ph \$1.00.
- OSRD 3999 PBL 22517 (2-63)
Reichelderfer, C. A., and others
Examination of enemy materiel (00-113) (AC-77): Metallurgical examination of fuel tank from Japanese aircraft "Oscar." Progress report 85, Jun 24, 1944. Aug 1944.
- OSRD 4000 PBL 22518 (1-1568)
Bartholomew, E. L., Jr., and others
Examination of enemy materiel (00-113) (AC-77): Metallurgical investigation of a German 170 mm. gun tube. Progress report 91, Jul 15, 1944. Aug 1944.
18p photos. Mi \$.50 Ph \$2.00.
- OSRD 4001 PBL 22519 (2-62)
Grenell, L. H., and others
Examination of enemy materiel (00-113) (AC-77): Metallurgical and chemical examination of a Japanese landing gear and wheel. Progress report 88, Jun 29, 1944. Aug 1944.
20p photos, tables. Mi \$.50 Ph \$2.00.
- OSRD 4010 PBL 12170 (1-982)
Seashore, Harold, and Kurtz, Albert K.
Analysis of errors in copying code. Aug 1944.
53p Mi \$1.00 Ph \$4.00.
- OSRD 4016 PBL 18803 (1-1559)
Exline, Paul G., Dashiell, J. W.
Some characteristics of aircraft engine fuels: Their influence on capacitor type tank gauges. Jun 1944.
48p drawings, graphs, tables. Mi \$.50 Ph \$4.00.
- OSRD 4019 PBL 23706 (2-310)
Handelman, G. H., and Prager, W.
Aerodynamic pursuit curves for overhead attacks. Aug 1944.
62p curves, tables. Mi \$1.00 Ph \$5.00.
- OSRD 4020 PBL 23702 (2-257)
Brillouin, Leon
A coil yielding a single dipole moment. Jul 1944.
32p diagrs, tables. Mi \$.50 Ph \$3.00.
- OSRD 4023 PBL 18805 (2-77)
Abrams, M. H., and others
Speech in noise: A study of the factors determining its intelligibility. Sep 1944.
153p graphs, tables. Mi \$2.00 Ph \$11.00.
- OSRD 4024 PBA 18866 (2-323)
Westheimer, F. H., and others
The kinetics of the nitration of phenols. Oct 1944.
32p tables, graphs. Mi \$.50 Ph \$3.00.
- OSRD 4025 PBA 30766 (2-790)
Carmack, Marvin, and others
The oxynitration of benzene to nitrophenols. Progress report, Oct 1942-Apr 1944. Oct 1945.
155p tables, drawings. Mi \$4.00 Ph \$11.00.
- OSRD 4026 PBA 18863 (2-243)
Bachmann, Werner E.
The oxynitration of benzene to 2, 4-dinitrophenol. Feb 1945.
25p Mi \$.50 Ph \$2.00.
- OSRD 4027 PBL 28611 (2-391)
Singleton, Robert
Examination and test of the flashlight perspective projector. Jul 1944.
16p photos, sketches. Mi \$1.00. Ph \$2.00.
- OSRD 4028 PBL 31056 (2-873)
Jones, Reginald L.
Response characteristics of hydrophones, as influenced by their position with respect to sea bottom. May 1944.

- OSRD 4029 PBL 4208 (1-429)
Henriques, F. C., Jr., and others
An experimental investigation of the physiological mechanisms concerned in the production of casualties by flame thrower attack. 1944.
44p Ph \$3.00 MI \$1.50
- OSRD 4030 PBL 24891 (3-43)
Hill, G. Albert, and Clarke, R. G.
Underwater flares. Aug 1944.
11p drawing. MI \$1.50 Ph \$1.00.
- OSRD 4031 PBL 25405 (2-312)
Sparkman and Stephens, Inc., New York
Development and tests of the $\frac{1}{4}$ ton 4 x 4 GPA amphibian (QMC4). Final report. Jul 1944.
57p drawings. MI \$2.00 Ph \$4.00.
- OSRD 4032 PBL 63543 (5-213)
Pugh, E. M., and Winslow, G. H.
Ballistic tests on combinations of plastic and steel armor. Aug. 1944.
7p MI \$1.00 Ph \$1.00.
- OSRD 4033 PBL 34774 (2-883)
Beek, John, Jr.
A study of the effect of radiation on the burning of rocket powder. Aug 1944.
21p graph, tables. MI \$1.00 Ph \$2.00.
- OSRD 4034 PBL 13296 (1-900)
Conrad, Herbert S.
Characteristics and uses of item-analysis data. Aug 1944.
82p MI \$1.00 Ph \$6.00.
- OSRD 4040 PBL 23709 (2-544)
Princeton University. Statistical Research Group
Statistical analysis for a new procedure in sensitivity experiments. Jul. 1944.
63p graphs. MI \$1.00 Ph \$5.00.
- OSRD 4042 PBL 19489 (1-1253)
Thomsen, Erich G., and others
Formability of magnesium alloy sheet (NA-146): Final report, Part VI, Forming beads on the Guerin press, Jul 1, 1944. Aug 1944.
38p photos, graphs. MI \$.50 Ph \$3.00.
- OSRD 4043 PBL 20204 (1-1500)
Duwez, P. E., and others
Behavior of metals under dynamic conditions (MS-109): The behavior of clamped beams under impact loading. Progress report, Jul 1, 1944. Aug 1944.
27p photos, diagrs, graphs. MI \$.50 Ph \$2.00.
- OSRD 4044 PBL 5501 (1-1141)
Bakelite Corp., Research and Development Dept.
Coatings for wood ship bottoms. Aug 1944.
8p MI \$.50 Ph \$1.00.
- OSRD 4045 PBL 32697 (3-293)
National Defense Research Committee. Applied Mathematics Panel
Notes on parameters of probability distributions. Jun 1944.
20p MI \$1.00 Ph \$2.00.
- OSRD 4047 PBL 28591 (2-440)
Carnegie Institution of Washington. Mount Wilson Observatory
Resolving power in aerial photography. May 1944.
42p curves, photos, tables. MI \$1.00 Ph \$3.00.
- OSRD 4048 PBL 16452 (1-1205)
Hutchinson, W. G., and McCrea, Robert
Report on a house for the study of materials under tropical conditions. Jul 1944.
15p drawings, photos. MI \$.50 Ph \$1.00.
- OSRD 4050 PBL 18332 (1-1259)
Imus, H. A.
Manual for use in the selection of fire controlmen (O). (Stereoscopic rangefinder operators.) Aug 1944.
101p photo, diagrs. MI \$1.50 Ph \$7.00.
- OSRD 4052 PBL 19558 (1-1408)
Low, John R., Jr., and Prater, T. A.
Plastic flow of aluminum aircraft sheet under combined loads, II: (NA-150): Progress report, Feb. 1943-Jun 1944. 1943-44.
Drawings, curves, tables, charts.

PB	OSRD	MI	Ph
19565	1486	\$.50	\$4.00
19559	1938	.50	2.00
19554	3108	.50	3.00
19562	3539	.50	2.00
19558	4052	1.00	5.00 (Final report)
- OSRD 4056 PBL 16470 (1-1247)
Butts, Allison, and others
Investigation of the effects of impurities on the ferro-magnetism of nonferrous alloys (OD-156): Progress report, Apr 15-Jul 15, 1944. Aug 1944.
77p tables, graphs. MI \$1.00 Ph \$5.00.
- OSRD 4057 PBL 15128 (1-1261)
Murray, F. J., and Sard, A.
The prediction of fuze setting. Aug. 1944.
83p tables. MI \$1.00 Ph \$6.00.
- OSRD 4059 PBL 12172 (1-903)
Kurtz, Albert K.
The prediction of code learning ability. Aug 1944.
67p MI \$1.00 Ph \$5.00.
- OSRD 4060 PBL 40548 (3-415)
Mikhailapov, G. S., and Humberstone, J. H.
Suggested specification for ferritic armor-welding electrode, type NRC-2A. Advisory report. Aug 1944.
18p photos, diagrs. MI \$1.00 Ph \$2.00.
- OSRD 4062 PBL 22520 (1-1574)
Grenell, L. H., and others
Examination of enemy material (OD-113) (AC-77): A metallurgical examination of four Japanese 47 mm. armor-piercing, high-explosive shells. Progress report 89, Jul 18, 1944. Aug 1944.
17p photos, tables. MI \$.50 Ph \$2.00.
- OSRD 4063 PBL 22521 (1-1526)
Grenell, L. H., and others
Examination of enemy material (OD-113) (AC-77): Metallurgical examination of parts from a Japanese Sakae 12 engine. Progress report 90, Jul 18, 1944. Aug 1944.
40p photos, diagrs. MI \$.50 Ph \$3.00.
- OSRD 4064 PBL 22520 (1-1574)
Grenell, L. H., and others
Examination of enemy material (OD-113) (AC-77): A metallurgical examination of a Japanese 20 mm. aircraft machine gun. Progress report 94, Jul 24, 1944. Aug 1944.
11p photos. MI \$.50 Ph \$1.00.
- OSRD 4065 PBL 32227 (2-548)
Gerry, Eugene B.
Test for determining incendiary values of bombs and bomb fuels. Report, May 25, 1944. Aug 1944.
56p photos, tables, drawings. MI \$2.00 Ph \$4.00.
- OSRD 4067 PBL 32228 (2-548)
Messing, Richard
The inflammability of wood as effected by moisture content. Second report, May 25, 1944. Aug 1944.
31p tables, graphs, charts. MI \$1.00 Ph \$3.00.
- OSRD 4068 PBL 4648 (1-320)
Ortynsky, R. L., and others
Comparison of M12 and M13 bursters in the M47-A2, 100 lb. incendiary bomb. 1944.
29p illus. Ph \$2.00 MI \$.50.
- OSRD 4070 PBL 19548 (1-1487)
Barrett, Charles S., and others
Deformation characteristics of magnesium alloys (NA-148): Fourth quarterly progress report Mar 15, 1944-Jun 15, 1944. Aug 1944.
46p diagr, photos. MI \$.50 Ph \$4.00.
- OSRD 4071 PBL 22522 (1-1574)
Grenell, L. H., and others
Examination of enemy material (OD-113) (AC-77): Metallurgical examination of a Japanese army 105 mm. H. E. shell of 1938. Progress report 96, Jul 25, 1944. Aug 1944.
10p photos, tables. MI \$.50 Ph \$1.00.
- OSRD 4072 PBL 22523 (1-1525)
Jackson, L. R., and others
Examination of enemy material (OD-113) (AC-77): Metallurgical examination of a German air-speed indicator. Progress report 97, Jul 24, 1944. Aug 1944.
10p photos. MI \$.50 Ph \$1.00.
- OSRD 4073 PBL 22524 (2-63)
Reichelderfer, C. A., and others
Examination of enemy material (OD-113) (AC-77): Metallurgical examination of landing gear strut, landing wheel, and tail wheel strut assembly from Japanese aircraft "Betty." Progress report 92, Jul 24, 1944. Aug 1944.
34p photos. MI \$.50 Ph \$3.00.
- OSRD 4074 PBL 34758 (3-257)
Bewton, R. R., and Rosser, J. R.
Preliminary report on the motion of a fin-stabilized rocket during the burning period; part II. Aug 1944.
14p diagrs. MI \$1.00 Ph \$1.00.
See also PB 34757.
- OSRD 4079 PBL 31014 (2-990)
Langmuir, I., and others
A study of binaural perception of the direction of a sound source. Jun 1944.
56p diagr, graphs, photos, tables. MI \$2.00 Ph \$4.00.
- OSRD 4080 PBL 28552 (2-303)
Brantley, L. Reed
Studies and investigations in connection with the development of hard protective coatings for optical plastics. Aug. 1944.
13p tables, diagrs. MI \$1.00 Ph \$1.00.

OSRD 4082 PBL 12173 (1-769)

Seashore, Harold, and others

Variation of activities in code classes: An experimental study of the problem of monotony in code learning. Aug 1944.

31p MI \$1.50 Ph \$3.00.

OSRD 4083 PBL 12175 (1-982)

Seashore, Harold, and Stuntz, Stephen

Variety in code learning: A manual of activities designed to increase interest and reduce monotony in code schools. Aug 1944.

49p MI \$1.50 Ph \$4.00.

OSRD 4086 PBL 15869 (1-1421)

Mehl, R. F., and others

Prevention of cracking in gun tubes (00-34-3). Progress reports, Jun 15, Sep 15, 1944, Jan 15, 1945; final report, Jun 30, 1945. Sep 1944-Jul 1945.

Diagra, photos, tables.

PB	OSRD	Pages	Micro	Photo
15869	4086	68p	\$1.00	\$5.00
15830	4567	33p	.50	3.00
15852	4938	26p	.50	2.00
15831	5383	31p	.50	3.00

OSRD 4087 PBL 15810 (1-981)

Prentice, M. C. R.

The selection and training of night lookouts. Report No. 2. A study of the performance of night lookouts aboard ship. Oct 1944.

39p

MI \$1.50 Ph \$3.00.

OSRD 4089 PBL 22525 (2-131)

Granell, L. H., and others

Examination of enemy materiel (00-113) (AC-77): A metallurgical examination of Japanese 75 mm. armor-piercing, high-explosive Howitzer rounds. Aug 1944.

26p tables. MI \$1.50 Ph \$2.00.

OSRD 4090 PBL 22526 (2-64)

Jackson, L. R., and others

Examination of enemy materiel (00-113) (AC-77): Metallurgical examination of a German aircraft master compass and a pilot (repeater) compass. Progress report 95, Jul 25, 1944. Aug 1944.

30p photos. MI \$1.50 Ph \$2.00.

OSRD 4093 PBL 19650 (1-1443)

Greenber, H. J., and Hurewicz, M.

The stability of periodic dynamical processes subject to discontinuous impulses. Aug 1944.

75p table. MI \$1.00 Ph \$5.00.

OSRD 4101 PBA 12034 (1-992)

Makman, Selman A., and others

Fungi and tropical deterioration, a manual. Third edition. Jul 1944.

47p MI \$1.50 Ph \$4.00.

OSRD 4102 PBL 20212 (1-1576)

Boston, G. M., and others

Investigation of boron in armor plate (00-87): Machinability evaluation by cutting-speed tool-life tests of three steels, each in three annealed structures. Progress report, Aug. 10, 1944. Sept 1944.

22p curves, diagra, tables.

MI \$1.50 Ph \$2.00.

OSRD 4111 PBL 8338 (1-637)

Perlev, G. A., and Cherry, R. H.

Development of a direct-indicating carbon monoxide instrument. 1944.

72p MI \$1.00 Ph \$5.00.

OSRD 4113 PBL 22527 (2-64)

Jackson, L. R., and others

Examination of enemy materiel (00-113) (AC-77): Metallurgical examination of a German and Japanese altimeter. Progress report 98, Jul 21, 1944. Sept 1944.

17p photos. MI \$1.50 Ph \$2.00.

OSRD 4114 PBL 28583 (2-358)

Dunham, Theodore, Jr.

Binocular developments. Final report. Dec. 1944.

40p drawings, graphs, photos.

MI \$1.00 Ph \$3.00.

OSRD 4116 PBL 33249 (3-126)

White, Harvey E.

Invisible ultraviolet light sources and filters, Gallium lamp. Second progress report. Jul 1944.

9p curve, photos. MI \$1.00 Ph \$1.00.

OSRD 4118 PBL 16451 (1-1200)

Pennsylvania University. The Johnson Foundation.

Report on the fungus fouling of optical instruments. Sep 1944.

90p tables, photos. MI \$1.00 Ph \$6.00.

OSRD 4119 PBL 28550 (2-304)

Lucas, H. J.

Studies and investigations in connection with the development of hard protective coatings for optical plastics and glasses. Progress reports: monthly, bimonthly and final reports. Mar 1943-Nov 1944.

Tables, graphs, photos.

PB	OSRD	P	MI	Ph
28544	1355	20	\$1.00	\$2.00
28545	1483	26	1.00	2.00
28546	1575	27	1.00	2.00
28547	1710	9	1.00	1.00
28548	1849	28	1.00	2.00
28549	1956	54	2.00	4.00
28550	4119	78	2.00	6.00

OSRD 4122 PBL 15827 (1-1409)

Mehl, R. F., and others

Improvement in gun steel ingot practices (00-34-3): Part I. Statistical and laboratory studies. Final report, Jul 15, 1944. Aug 1944.

62p diagra, graphs, photos.

MI \$1.00 Ph \$5.00.

OSRD 4123 PBA 18861 (1-1582)

Williams, J. M., and others

The characterization and solubility of fractionated wood pulp and cotton linters nitrocellulose, to Mar 1, 1944. Sep 1944.

45p graphs, tables. MI \$1.50 Ph \$3.00.

OSRD 4124 PBL 12180 (1-903)

Kurtz, Albert K., and Seashore, Harold

The radio code research project: Final report of Project M-107. Sep 1944.

9p MI \$1.50 Ph \$1.00.

OSRD 4125 PBL 22528 (2-67)

Granell, L. H., and others

Examination of enemy materiel (00-113) (AC-77): Metallurgical examination of four different types of Japanese aircraft spark plugs. Progress report 99, Aug 5, 1944. Sep 1944.

8p photos, tables.

MI \$1.50 Ph \$1.00.

OSRD 4126 PBL 22529 (1-1567)

Anthony, H. L.

Examination of enemy materiel (00-113) (AC-77): Metallurgical examination of captured enemy pressure vessels. Progress report 110, Aug 14, 1944. Sep 1944.

21p photos, tables. MI \$1.50 Ph \$2.00.

OSRD 4127 PBL 22530 (2-64)

Jackson, L. R., and others

Examination of enemy materiel (00-113) (AC-77): Metallurgical examination of two Japanese aircraft bank and turn indicators. Progress report 109, Aug 10, 1944. Sep 1944.

27p photos. MI \$1.50 Ph \$2.00.

OSRD 4131 PBL 22531 (1-1575)

Granell, L. H., and others

Examination of enemy materiel (00-113) (AC-77): Metallurgical examination of two Japanese 140 mm. naval projectiles. Progress report 114, Aug 16, 1944. Sep 1944.

14p photos, tables. MI \$1.50 Ph \$1.00.

OSRD 4134 PBL 18867 (1-1531)

Blomquist, Alfred T.

Certain aliphatic nitramines and related compounds. Nov 1944.

168p MI \$2.00 Ph \$12.00.

OSRD 4135 PBL 22532 (1-1568)

Bartholomew, E. L., Jr., and others

Examination of enemy materiel (00-113) (AC-77): Metallurgical investigation of two 50 mm. German tank gun tubes, breech rings, and breech ring locking collars. Progress report 100, Aug 15, 1944. Sep 1944.

42p curves, diagra, photos, tables.

MI \$1.50 Ph \$3.00.

OSRD 4136 PBL 31057 (2-949)

Jones, Reginald L.

Wide range supersonic projector for calibration work. Aug 1944.

23p diagra, graphs, photo. MI \$1.00 Ph \$2.00.

OSRD 4138 PBL 15826 (1-1381)

Mells, Cyril, and Mehl, R. F.

Improvement in wrought gun tubes (00-34-3): Quarterly report, Apr 15-Jul 15, 1944. Sep 1944.

12p MI \$1.50 Ph \$2.00.

OSRD 4139 PBL 58191 (4-947)

Friend, A. W.

Discussion of the radio link receiver problem and descriptions of low I.F. crystal controlled superheterodyne receivers for Azon and Razon. Report of developments to July 15, 1944. Jul 1944.

75p photos, diagra, graphs, tables.

MI \$2.00 Ph \$5.00.

See also PB 58235.

OSRD 4140 See OSRD 4404.

OSRD 4141 PBL 8612 (1-830)

Glaque, W. F.

Liquid oxygen trailer unit. Final report to July 25, 1944. 1944.

705p illus. MI \$7.50 Ph \$47.00.

OSRD 4142 See OSRD 3523.

OSRD 4143 PBL 8340 (1-607)

Trumpler, P. R.

Heat transfer and pressure drop in Collins exchangers. 1944.

44p illus. MI \$5.00 Ph \$3.00.

- OSRD 4144 See OSRD 4404.
- OSRD 4145 PBL 22533 (2-64)
DeVore, J. R.
Examination of enemy materiel (OD-113) (AC-77): Luminescence of enemy aircraft instrument dials. Progress report III, Aug 16, 1944. Sep 1944.
14p photos, tables. MI \$1.50 Ph \$1.00
- OSRD 4150 See OSRD 3607.
- OSRD 4151 PBL 12174 (1-903)
Levin, Max H.
An analysis of men entering the DD Pool, Precommissioning Training Center, Treasure Island, May 29-July 29, 1944. Sep 1944.
14p MI \$1.50 Ph \$1.00.
- OSRD 4157 PBL 32215 (2-742)
Adler, Howard, and Klein, George
Pilot plant study of the processing of plasticized white phosphorus. Final report, Jul 29, 1944. Sep 1944.
36p diagr, graphs, photos. MI \$1.00 Ph \$3.00.
- OSRD 4158 PBA 6024 (1-534)
Yoe, John H., and Lindsley, Charles H.
Gravimetric determination of water, trimer and residue in cyanogen chloride. 1944.
18p MI .50 Ph \$2.00.
- OSRD 4161 PBA 40636 (3-580)
Calvin, Melvin
The development, properties, and use of chelate compounds for the production of oxygen. Final summary report, Aug 31, 1944. Sep 1944.
27p MI \$1.00 Ph \$2.00.
- OSRD 4162 PBL 27424 (2-544)
Peck, R. B., and Speer, T. L.
Soil conditions at the site of underground explosion tests Camp Gruber, Oklahoma, and Princeton, New Jersey. Sep 1944.
34p drawings, tables. MI \$1.00 Ph \$3.00.
- OSRD 4167 PBL 6569 (1-689)
National Defense Research Committee
Manual on the operation and maintenance of the mobile servicing unit for flame throwers. 1944.
83p Ph \$6.00 MI \$1.00.
- OSRD 4169 PBL 33344 (2-746)
Abbot, C. G., and Aldrich, L. B.
A special radiation filter opaque to the eye, transmissive for waves shorter than 3000 angstroms. Progress report. 1944.
19p drawings, tables. MI \$1.00 Ph \$2.00.
- OSRD 4170 PBL 33347 (2-864)
Leverenz, H. M.
Research on high intensity phosphor light source. Final report, Mar 1943-Aug 1944. Jul 1944.
51p photo, graphs, diagr. MI \$2.00 Ph \$4.00.
See also PB 33342.
- OSRD 4171 PBL 19498 (1-1240)
Finch, D. M., and others
Formability of magnesium alloy sheet (MA-146): Final report, Part VII, Stretch forming magnesium alloys, Aug 5, 1944. Sep 1944.
118p photos, diagr, curves. MI \$1.50 Ph \$8.00.
- OSRD 4172 PBL 19504 (1-1345)
Cunningham, D. M., and others
Stress-strain relationships for J1 magnesium alloy extrusion under biaxial stresses. Sep 1944.
30p curves, drawings, photos. MI \$.50 Ph \$2.00.
- OSRD 4175 PBL 6017 (1-479)
Hurd, Charles D.
2-chlorovinylselenium chloride, selenium oxychloride, 2-chloroethaneselenenyl chloride, and ethaneselenenyl chloride hydrate, to September, 1944. 1944.
12p MI \$.50 Ph \$1.00.
- OSRD 4177 PBA 6019 (1-538)
Fuson, R. C., and others
The composition of Levinstein mustard. 1944.
138p MI \$1.50 Ph \$10.00.
- OSRD 4178 PBL 22534 (1-1574)
Grenell, L. H., and others
Examination of enemy materiel (OD-113) (AC-77): Metallurgical examination of a Japanese aircraft 12.7 mm. "Browning" machine gun. Progress report 112, Aug 16, 1944. Sep 1944.
22p photos, tables. MI \$.50 Ph \$2.00.
- OSRD 4179 PBL 22535 (2-62)
Grenell, L. H., and others
Examination of enemy materiel (OD-113) (AC-77): Metallurgical examination of airframe sections from "Zeke," "Val," "Lily," and "Dinah" Japanese planes. Progress report 113, Aug 10, 1944. Sep 1944.
16p drawings, photos, tables. MI \$.50 Ph \$2.00.
- OSRD 4180 PBL 22536 (2-148)
Chollar, R. G., and others
Examination of enemy materiel (OD-113) (AC-77): Examination of diaphragm and gasket from Japanese aircraft fuel pump. Sep 1944.
7p tab, graphs. MI \$.50 Ph \$1.00.
- OSRD 4183 PBL 28635 (2-442)
Technicolor Motion Picture Corp.
Anti-oscillation mount for binoculars. Feb 1945.
95p photos, drawings, graphs. MI \$2.00 Ph \$7.00.
- OSRD 4184 PBL 28637 (2-537)
Technicolor Motion Picture Corp.
Aerial camera shutter. Final report. Feb 1945.
60p photos, drawing. MI \$2.00 Ph \$4.00.
- OSRD 4185 PBL 28636 (2-537)
Technicolor Motion Picture Corp.
A method for checking the focus of aerial cameras. Final report. Feb 1945.
17p photos, curves, drawing. MI \$1.00 Ph \$2.00.
- OSRD 4186 PBL 27549 (2-108)
Columbia University. Airborne Instruments Laboratory
Handbook of instructions for AM-36/ASQ Sep 1944.
18p photos, diagr. MI \$1.00 Ph \$2.00.
- OSRD 4187 PBL 27551 (2-110)
Tolles, M. E., and Vacquier, V. V.
Compensation of magnetic fields in MAD-equipped aircraft. Jul 1944.
- 87p photo, drawings, graphs. MI \$2.00 Ph \$6.00.
See also PB 27542 and 27548.
- OSRD 4188 PBL 19577 (1-1411)
Sachs, George, and others
Correlation of information available on the fabrication of aluminum alloys (MA-126): Final report. Section IV, Survey of the properties of new aluminum alloys: Part V, The aluminum alloy 75S-sheet. Sep 1944.
81p tables. MI \$1.00 Ph \$6.00.
- OSRD 4192 PBL 18467 (1-1275)
White, Merit P.
The limit design of structures subjected to impulsive loads—with application to military structures. Sep 1944.
40p diagr, tables, graphs. MI \$.50 Ph \$3.00.
- OSRD 4193 PBA 6016 (1-537)
Buswell, A. M.
The chemistry of certain arsenical chemical warfare agents as water contaminants. 1944.
48p MI \$.50 Ph \$4.00.
- OSRD 4175 PBA 6017 (1-479)
Hurd, Charles D.
2-chlorovinylselenium chloride, selenium oxychloride, 2-chloroethaneselenenyl chloride, and ethaneselenenyl chloride hydrate, to September, 1944. 1944.
12p MI \$.50 Ph \$1.00.
- OSRD 4194 PBA 6014 (1-540)
Moller, C. R., and Kaplan, L.
The preparation for toxicity tests of some heterocycles containing a nitrogen atom common to two fused rings, to August 1, 1944. 1944.
44p MI \$.50 Ph \$3.00.
- OSRD 4195 PBA 6015 (1-480)
Moller, C. R., and Kaplan, L.
The synthesis of certain mustard analogs, to August 1, 1944. 1944.
11p MI \$.50 Ph \$1.00.
- OSRD 4196 PBL 1642C (1-1013)
Grinstead, C. E.
Development and tests of an inductor compass. A progress report, December 1943-May 1944. Aug 1944.
58p photos, diagr, maps. MI \$1.00 Ph \$4.00.
- OSRD 4197 PBL 11206 (1-700)
Caywood, M.
Model study of the Rotafail: Second report. Nov. 1944.
38p illus. MI \$.50 Ph \$3.00.
- OSRD 4198 PBL 40547 (3-416)
Stitt, J. R.
Stress relief of weldments for machining stability (OD-34-4): Part II. Final report, Jul 15, 1944. Sep 1944.
30p tables, graphs, photos. MI \$1.00 Ph \$2.00.
- OSRD 4200 PBL 32195 (2-827)
Kirkwood, John G., and Richardson, John M.
The plastic deformation of circular diaphragms under dynamic loading by an underwater explosive wave. Progress report. Sep 1944.
107p curves, tables. MI \$3.00 Ph \$8.00.

- OSRD 4202 PBA 40634 (3-703)
Kirkpatrick, E. C.
Synthetic polymers as gasoline thickening agents. Final report, Jun 7, 1944. Oct 1944.
121p diagrs, tables, graphs. MI \$3.00 Ph \$9.00.
- OSRD 4203 PBL 58193 (4-864)
Gulf Research & Development Co., Pittsburgh
Experimental investigations in connection with high-angle dirigible bombs: Calculated AZON trajectories. 1944.
94p tables, graphs. MI \$2.00 Ph \$7.00.
- OSRD 4204 PBL 58227 (4-950)
Gulf Research & Development Co., Pittsburgh
Experimental investigations in connection with high-angle dirigible bombs: The VB-2 bomb (2,000 pound AZON). Progress report, Jun 1, 1944. Jun 1944.
41p photos, diagrs, graphs. MI \$1.00 Ph \$3.00.
- OSRD 4205 PBA 4631 (1-700)
McBain, James W., and others
Fundamental studies on aluminum soaps. (Progress reports to National Defense Research Committee.) Nov 15, 1943 to May 15, 1945. 1943-45.
- | PS | P | MI | Ph |
|------|-----|--------|--------|
| 4631 | 15 | \$0.50 | \$1.00 |
| 5278 | 24 | .50 | 2.00 |
| 5279 | 15 | .50 | 1.00 |
| 5280 | 32 | .50 | 3.00 |
| 5281 | 12 | .50 | 1.00 |
| 5282 | 29 | .50 | 2.00 |
| 5283 | 8 | .50 | 1.00 |
| 5284 | 11 | .50 | 1.00 |
| 5885 | 244 | 2.50 | 17.00 |
| 5886 | 41 | .50 | 3.00 |
| 5886 | 80 | 1.00 | 6.00 |
| 5888 | 57 | 1.00 | 4.00 |
| 5889 | 175 | 2.00 | 12.00 |
| 5961 | 19 | .50 | 2.00 |
| 5965 | 42 | .50 | 3.00 |
| 5957 | 50 | .50 | 4.00 |
| 5971 | 46 | .50 | 4.00 |
- OSRD 4205 Supp. PBA 4631a (5-97)
McBain, J. M., and others
Fundamental studies on aluminum soaps. October 15 to November 15, 1943. Nov 1943.
10p graphs, diagrs. MI \$1.00 Ph \$1.00.
- OSRD 4206 PBL 8900 (1-506)
Lobo, M. E., M. M. Kellogg Company
Technical data pertaining to air: its liquefaction and distillation, to August 24, 1944.
55p MI \$1.00 Ph \$4.00.
- OSRD 4207 See OSRD 3523.
- OSRD 4208 PBL 16484 (1-1027)
Tucker, Clyde W., and others
Residual stresses in cold-drawn nonferrous alloys (00-25): An X-ray study, Final report, Part III: Mar 1-Jun 15, 1944. Oct 1944.
123p graphs. MI \$1.50 Ph \$9.00.
- OSRD 4210 PBL 5219 (1-483)
Almy, G. M., and others
Three to twenty million volt radiography. Progress report. Section 1. Development of the betatrons. Section 2. Development of porcelain envelope for vacuum tubes. 1944.
23p illus. Ph \$2.00 MI \$5.00.
- OSRD 4211 PBA 8022 (1-481)
Salzberg, P. L., and others
Addition of surface active agents to mustard. 1944.
16p Ph \$2.00 MI \$5.00.
- OSRD 4214 PBL 22537 (2-34)
Grenell, L. H., and others
Examination of enemy materiel (00-113) (AC-77): Metallurgical examination of two German MG-151 aircraft machine gun mounts. Progress report 118, Aug 25, 1944. Oct 1944.
13p photos, tables. MI \$5.00 Ph \$1.00.
- OSRD 4215 PBL 22538 (2-23)
Grenell, L. H., and others
Examination of enemy materiel (00-113) (AC-77): Metallurgical examination of a Japanese "Zeke" aircraft volt box. Progress report 118, Aug 31, 1944. Oct 1944.
9p photos, tables. MI \$5.00 Ph \$1.00.
- OSRD 4217 PBL 19775 (2-16)
Licklider, J. C. R.
The effects of amplitude distortion upon the intelligibility of speech. Nov 1944.
78p diagrs. MI \$1.00 Ph \$6.00.
- OSRD 4218 PBL 5901 (3-98)
Redemann, C. Ernst, and others
An electronic interval timer for the Northrop titrimeter. Progress report, Sep 15, 1944. Oct 1944.
16p photos, diagr, graphs. MI \$5.00 Ph \$2.00.
- OSRD 4219 PBL 13110 (1-922)
Schilling, H. K.
Preliminary report on supersonic signalling. Sep 1944.
17p MI \$5.00 Ph \$2.00.
- OSRD 4222 PBL 43045 (3-789)
Gottler, T. L.
General block improvements. Final report. Apr 1944.
20p diagrs. MI \$1.00 Ph \$2.00.
- OSRD 4224 PBL 25402 (2-230)
U. S. Office of Scientific Research and Development
Final report of the 1/4 ton 4x4 amphibian built by Marmon Herrington. Sep 1944.
10p drawing, photos. MI \$1.00 Ph \$1.00.
- OSRD 4225 PBL 15601 (1-1227)
Wells, H. M., and others
Correlation of direction-finder errors with ionospheric conditions, College, Alaska, August 16, 1943, to June 30, 1944. Sep 1944.
16p MI \$5.00 Ph \$2.00.
- OSRD 4233 PBL 18333 (1-1403)
Imus, H. A.
Manual for the installation and adjustment of the multiple projection Eikonometer. Oct 1944.
71p photos, drawings. MI \$1.00 Ph \$5.00.
- OSRD 4234 PBL 22621 (1-1591)
Grenell, L. H., and others
Examination of enemy materiel (00-113) (AC-77): Metallurgical examination of a Japanese Sakae-21 aircraft engine. Progress report 107, Aug 8, 1944. Oct 1944.
110p photos, tables. MI \$1.50 Ph \$8.00.
- OSRD 4235 PBL 20211 (2-37)
Jackson, L. R., and others
Investigation of boron in armor plate (00-87): Endurance properties of basic open hearth steel containing 0.4 percent carbon and 1.6 percent manganese without and with boron addition. Progress report, Aug 15, 1944. Oct 1944.
30p curves. MI \$5.00 Ph \$2.00.
- OSRD 4237 PBL 24879 (2-259)
Razek, Joseph
Investigation of a method of nonmagnetic mine detection based on the well-logger. Oct 1944.
21p photos. MI \$5.00 Ph \$2.00.
- OSRD 4238 PBL 24878 (2-259)
Razek, Joseph
Report on Mine detection method proposed by Virgil Brittain. Final report. Oct 1944.
8p photos, diagr. MI \$5.00 Ph \$1.00.
- OSRD 4239 PBL 13114 (1-806)
Barry, J. M.
Tests of odograph in a 2 1/2-ton amphibious truck.
11p illus. MI \$5.00 Ph \$1.00.
- OSRD 4242 PBL 13295 (1-904)
Peterson, D. A.
The preparation of norms for the fleet edition of the general classification test. Oct 1944.
17p MI \$5.00 Ph \$2.00.
- OSRD 4245 PBL 20833 (1-1545)
Dietze, E.
Measurement of projector and hydrophone performance, definitions and terms. Sep 1944.
62p diagrs, graphs. MI \$1.00 Ph \$5.00.
- OSRD 4249 PBL 5504 (1-409)
Ericson, H. L., and Beranek, L. L.
Noise reduction in LVT-A-4 amphibious tractors. 1944.
61p illus. Ph \$5.00 MI \$1.00.
- OSRD 4251 PBL 22539 (1-1568)
Bartholomew, E. L., Jr., and others
Examination of enemy materiel (00-113) (AC-77): Metallurgical investigation of German 105 mm gun tube. Progress report 101, Sep 15, 1944. Oct 1944.
17p diagrs, photos, tables. MI \$5.00 Ph \$2.00.
- OSRD 4252 PBL 22540 (1-1522)
Heussner, C. E., and others
Examination of enemy materiel (00-113) (AC-77): Metallurgical examination of airframe sections from Japanese aircraft "Jill." Progress report 123, Sep 12, 1944. Oct 1944.
13p photos. MI \$5.00 Ph \$1.00.
- OSRD 4263 PBL 16490 (1-1246)
Anderson, E. A., and Peirce, M. M.
Prevention of stress-corrosion cracking of cartridge brass by protective coatings or surface treatment (00-25): Final report, supp. Oct 1944.
5p MI \$5.00 Ph \$1.00.
- OSRD 4266 PBL 18877 (2-35)
Bridgman, P. M.
The plastic properties of steel under large strains and high stresses. Final report. Oct 1944.
74p graphs, tables. MI \$1.00 Ph \$5.00.

- OSRD 4260 PBL 12177 (1-84C)
Talley, C. Mortin, and others
Report on microphone position: T-30-3 and T-17 Oct 1944.
15p MI \$1.50 Ph \$1.00.
- OSRD 4261 PBL 12178 (1-900)
Curtis, James F.
Report on training studies in voice communication. II. The use of noise in a training program. Oct 1944.
20p MI \$1.50 Ph \$2.00.
- OSRD 4263 PBL 4024 (1-446)
Viteles, Morris S., and others
An investigation of the range estimation trainer, device 5C-4 as a method of teaching range estimation. 1944.
55p Ph \$4.00 MI \$1.00.
- OSRD 4264 PBL 18350 (1-1270)
Lindsay, Donald B., and others
The effect of extraneous illumination upon detection of signals on an A-Scan oscilloscope. Oct 1944.
14p tables. MI \$1.50 Ph \$1.00.
- OSRD 4266 PBL 23779 (2-456)
New York University. Applied Mathematics Group
Supersonic flow and shock waves, a manual on the mathematical theory of non-linear wave motion. Aug 1944.
294p graphs, drawings. MI \$3.00 Ph \$20.00.
For suppl. see PB 23728.
- OSRD 4267 PBL 22541 (1-1573)
Anthony, H. L.
Examination of enemy material (00-113) (AC-77): Metallurgical examination of Japanese oxygen and carbon dioxide cylinders. Progress report 117, Sep 9, 1944. Oct 1944.
25p photos, tables. MI \$1.50 Ph \$2.00.
- OSRD 4269 PBA 22891 (2-420)
McClure, F. A.
Western Hemisphere bamboos as substitutes for oriental bamboos for the manufacture of ski pole shafts. Final report, Apr 15, 1943-May 31, 1944. May 1944.
184p photos, tables. MI \$2.00 Ph \$11.00.
- OSRD 4270 PBL 20832 (1-1327)
Foldy, L. L.
The use of the Henrici Harmonic Analyzer to obtain frequency spectra of plumes. Sep 1944.
9p MI \$1.50 Ph \$1.00.
- OSRD 4272 PBA 5486 (1-431)
Osterhout, W. J. V.
The toxic action of mustard on Nitella. 1942.
15p illus. Ph \$1.00 MI \$1.50.
- OSRD 4277 PBL 28696 (2-528)
Harvard University, Optical Research Lab.
Report on a mirror frame method for harmonizing B-29 guns and sight. Dec. 1945.
35p photos, diagrs, sketches, tables.
MI \$1.00 Ph \$3.00.
- OSRD 4279 PBL 22542 (2-68)
Smith, E. M., and others
Examination of enemy material (00-113) (AC-77): Metallurgical examination of oil cooler from Japanese aircraft "Betty." Progress report 120, Aug 31, 1944. Oct 1944.
9p photos. MI \$1.50 Ph \$1.00.
- OSRD 4280 PBL 22358 (1-1519)
Smithers (V. L.) Laboratories
Examination of enemy material (00-113) (AC-77): Examination of Japanese aircraft tires and tube. Progress report 124, Sep 14, 1944. Oct 1944.
14p drawings, photos. MI \$1.50 Ph \$1.00.
- OSRD 4281 PBL 22359 (2-28)
Jackson, L. R., and others
Examination of enemy material (00-113) (AC-77): Metallurgical examination of a German and a Japanese aircraft rate of climb indicator. Progress report 125, Sep 15, 1944. Oct 1944.
20p photos, tables.
MI \$1.50 Ph \$2.00.
- OSRD 4282 PBL 19519 (2-37)
Jackson, L. R., and others
Fatigue properties of magnesium alloys and structures: Fatigue properties of magnesium alloy sheet—Part III (MA-145). Final Report, Aug 31, 1944. Oct 1944.
59p photos, curves. MI \$1.00 Ph \$4.00.
- OSRD 4290 PBL 12178 (1-770)
Talley, C. Horton, and others
Report on Voice loudness: Over aircraft radios and microphones. Oct 1944.
12p illus. MI \$1.50 Ph \$1.00.
- OSRD 4292 PBL 31058 (2-874)
Martin, W. H.
A calibration system in the lower megacycle range. Aug 1944.
77p photos, diagrs, graphs.
MI \$2.00 Ph \$6.00.
- OSRD 4294 PBL 19781 (1-1421)
Quereau, J. F.
Pilot model—seacoast data transmission system: Final report. Oct 1944.
27p photos, sketches. MI \$1.50 Ph \$2.00.
- OSRD 4296 PBL 58233 (4-1063)
Jackson, Alfred E.
Tests of television equipped high angle bombs at Tonopah, Nev., April-May, 1944. 1944.
23p photos. MI \$1.00 Ph \$2.00.
- OSRD 4297 PBL 43062 (3-793)
Wade, Edward, and Townsend, C. L.
Improvements to block equipped television transmitter and receiver for rapid frequency change: under NDRC contract OEM-441 (as amended). Final report. n.d.
27p diagrs, drawings. MI \$1.00 Ph \$2.00.
- OSRD 4302 See OSRD 3523.
- OSRD 4303 PBA 5956 (1-409)
Coleman, George H., and others
The preparation and stability of nitrogen mustards and related compounds, to September 10, 1944. 1944.
12p MI \$1.50 Ph \$1.00.
- OSRD 4304 PBA 5933 (1-477)
Fuson, R. C., and others
A continuous process for the preparation of mustard and sesquimustard. 1944.
12p Ph \$1.00 MI \$1.50.
- OSRD 4306 PBA 5859 (1-477)
Fuson, R. C., and others
Structure of propyl mustard and its analogs. 1944.
21p Ph \$2.00 MI \$1.50.
- OSRD 4308 PBA 5915 (1-513)
Northrop, John H.
Apparatus for the automatic detection of H or other gases which react with bromine by means of the bromine electrode, to September 8, 1944. 1944.
14p illus. Ph \$1.00 MI \$1.50.
- OSRD 4309 PBA 5868 (1-471)
Mason, O. W., and Delamater, G. B.
The microscopical identification of chloropicrin, to November 1, 1944. 1944.
9p Ph \$1.00 MI \$1.50.
- OSRD 4310 PBA 5914 (1-1143)
Northrop, John H., and Gettemans, J. F.
Automatic titrator for the determination of H, L and other gases in air: Supplement No. 4: Progress report to Sep. 5, 1944. Oct. 1944.
6p MI \$1.50 Ph \$1.00.
- OSRD 4311 PBA 5916 (1-533)
Northrop, John H., and Gettemans, J. F.
Determination of HS, H-I and other gases in air at a distance from the operator. Supplement No. 2., to September 1, 1944. Determination of HK3 with sodium hydroxide. 1944.
5p Ph \$1.00 MI \$1.50.
- OSRD 4314 PBL 16735 (1-1312)
Gourley, G. M.
Sonar training barge for consubstant: Progress report. Oct 1944.
9p photos, diagrs. MI \$1.50 Ph \$1.00.
- OSRD 4315 PBL 22370 (1-1525)
Jackson, L. R., and others
Examination of enemy material (00-113) (AC-77): Metallurgical examination of a German aircraft course meter. Progress report 106, Sep 22, 1944. Nov 1944.
12p photos. MI \$1.50 Ph \$1.00.
- OSRD 4316 PBL 22371 (1-1496)
Grenell, L. H., and others
Examination of enemy material (00-113) (AC-77): Corrosion resistance of a steel piston and a magnesium casting from a Japanese oleo landing strut. Progress report 122, Sep 12, 1944. Nov 1944.
17p photos. MI \$1.50 Ph \$2.00.
- OSRD 4317 PBL 22372 (1-1492)
Grenell, L. H., and others
Examination of enemy material (00-113) (AC-77): Metallurgical examination of six German explosive bomb rack bolts. Progress report 125, Sep 13, 1944. Nov 1944.
10p photos, drawings. MI \$1.50 Ph \$1.00.
- OSRD 4318 PBL 33361 (2-822)
Lamb, Reginald T., and McLeod, John H.
Fluorescent retrodirectional autocollimating buttons. Final report, Dec 1, 1943-Aug 31, 1944. Sep 1944.
12p diagrs. MI \$1.00 Ph \$1.00.
- OSRD 4319 PBL 51003 (4-973)
Floyd, F. H.
Stereoscopic camera with rapid automatic processing. Final report. Feb. 1944.
35p photos, diagrs. MI \$1.00 Ph \$3.00.
See also PB 51002.

- OSRD 4323 PBL 15809 (1-980)
Lamier, L. H.
The selection and training of night lookouts. Report No. 3. A night lookout trainer for use aboard ship. Nov 1944.
23p MI \$5.50 Ph \$2.00.
- OSRD 4324 PBA 15613 (1-985)
Neise, G. W., and others
Zinc chloride activated wood charcoal. (Progress report.) Sep 1944.
12p tabs. MI \$5.50 Ph \$1.00.
- OSRD 4325 PBM 5934 (1-496)
Heaton, C., and others
The preparation for toxicity tests of some thylene and acetylene derivatives, to September 1, 1944. 1944.
40p Ph \$3.00 MI \$5.50.
- OSRD 4327 PBL 58235 (4-959)
Teller, Joseph C.
Razon link receiver equipment. Final report. Sep 1944.
25p photos, graphs. MI \$1.00 Ph \$2.00.
See also PB 58191.
- OSRD 4329 PBL 12179 (1-766)
Keller, Fred S., and others
A comparison of training methods at two levels of code learning. Nov 1944.
16p MI \$5.50 Ph \$2.00.
- OSRD 4330 PBL 12064 (1-903)
Keller, Fred and Estes, K. W.
Distribution of practice in code learning. (Four hours massed versus four hours spaced) Nov 1944.
7p MI \$5.50 Ph \$1.00.
- OSRD 4332 PBL 15736 (1-1311)
Gilllett, G. D., and Rodelius, N. W.
Animated trainers: BIAT, RBAT, IS-WAS-AT: Completion report. Oct 1944.
10p photos. MI \$5.50 Ph \$1.00.
- OSRD 4333 PBL 31021 (2-640)
Knudsen, V. O., and others
Survey of underwater sound: Report no. 3. Ambient noise, Sep. 1944.
236p graphs, maps, tables.
MI \$5.00 Ph \$16.00.
- OSRD 4334 PBL 15634 (1-1294)
Rouse, Hunter, and others
Wind-tunnel studies of the diffusion of heat by single wind curtains and baffles, to July 10, 1944. Nov 1944.
21p diags. MI \$5.50 Ph \$2.00.
See also PB 15640.
- OSRD 4335 PBL 5867 (1-532)
MacDougall, F. H., and others
Sensitivity of arsenical detector tubes of M-9 kit to L, PD and ED, to November 6, 1944. 1944.
21p Ph \$2.00 MI \$5.50.
- OSRD 4337 PBL 22397 (1-1496)
Hoyt, S. L., and others
Examination of enemy material (00-113 AC-77). Metallurgical examination of six grades of Swedish carbide tool tips. Progress report 129, Oct 5, 1944. Nov 1944.
12p tables, photos. MI \$5.50 Ph \$1.00.
- OSRD 4340 PBL 9416 (1-606)
Spector, Norman A.
The removal of carbon dioxide from atmospheric air. 1944.
178p illus. MI \$2.00 Ph \$12.00.
- OSRD 4342 PBL 15811 (1-1043)
Medell, C. H.
Selection and training of night lookouts. Report No. 4. Final report in summary of work on the selection and training of night lookouts. Nov 1944.
15p MI \$5.50 Ph \$1.00.
- OSRD 4343 PBL 20227 (1-1576)
Clark, D. S., and others
Behavior of metals under dynamic conditions (MS-109): Mechanics of the dynamic performance of metals. Progress report, Sep 1, 1944. Nov 1944.
105p diags. MI \$1.50 Ph \$7.00.
- OSRD 4344 PBL 12111 (1-839)
Hathaway, Claude H., and Reno, Herbert
Development of a special oscillograph for Aberdeen Proving Ground. Final Report. Oct 1944.
61p illus. MI \$1.00 Ph \$5.00.
- OSRD 4345 PBL 63637 (5-212)
Carnegie Institution of Washington, Geophysical Laboratory
Investigation of gun erosion at the Geophysical Laboratory. Volume III. Jan to Jul 1944. Oct 1944.
107p tables, graphs. MI \$3.00 Ph \$7.00.
- OSRD 4347 PBL 19507 (1-1413)
Taub, J. M., and Sachs, George
Advisory report on stretching characteristics of aluminum alloy sheet (MA-126). Nov 1944.
36p photos, tables, diags. MI \$5.50 Ph \$3.00.
- OSRD 4348 PBL 19576 (1-1411)
Sachs, George, and Lubahn, J. D.
Correlation of information available on the fabrication of aluminum alloys (MA-126): Final report. Section V, Formability of aluminum alloys for use in military aircraft: Part I, General introduction; Part II, Effects of non-uniform stresses and strains. Nov 1944.
73p graphs. MI \$1.00 Ph \$5.00.
- OSRD 4352 PBL 18326 (1-1293)
Beier, D. C., and others
A follow-up study of the efficiency of the projection eikonometer test in predicting the performance of stereoscopic height finder observers. (Applied Psychology Panel: Selection and training of rangefinder and radar operators. Rept 13.) Nov 1944.
14p graphs. MI \$5.50 Ph \$1.00.
- OSRD 4358 PBL 22373 (1-1505)
Grenell, L. H., and others
Examination of enemy material (00-113) (AC-77): Metallurgical examination of a German MG-42, 7.92 mm. machine gun. Progress report 119, Sep 7, 1944. Nov. 1944.
12p photos, tables. MI \$5.50 Ph \$1.00.
- OSRD 4359 PBL 22374 (1-1526)
Grenell, L. H., and others
Examination of enemy material (00-113) (AC-77): Metallurgical examination of parts from an Aichi V-12 Japanese aircraft engine. Progress report 121, Sep 9, 1944.
36p photos. MI \$5.50 Ph \$3.00.
- OSRD 4360 PBL 22375 (1-1562)
Jackson, L. R., and others
Examination of enemy material (00-113) (AC-77): Metallurgical examination of German mechanical and electrical aircraft tachometers. Progress report 130, Oct 5, 1944. Nov 1944.
22p tables, photos. MI \$5.50 Ph \$2.00.
- OSRD 4361 PBL 9417 (1-718)
Wood, R. E., and Shoemaker, D. P.
The Pauling oxygen meter, to Jun 30, 1944. Nov 1944.
135p illus. MI \$1.50 Ph \$9.00.
- OSRD 4364 PBL 22376 (1-1525)
Jackson, L. R., and others
Examination of enemy material (00-113) (AC-77): Metallurgical examination of the instrument panel of a Jumo 211-B direct gasoline injection engine from a Junkers-88 German bomber. Progress report 128, Sep 27, 1944. Nov 1944.
21p MI \$5.50 Ph \$2.00.
- OSRD 4365 PBL 22377 (1-1507)
Grenell, L. H., and others
Examination of enemy material (00-113) (AC-77): Japanese drift meter of bomb sight. Progress report 132, Oct 10, 1944. Nov 1944.
15p photos. MI \$5.50 Ph \$1.00.
- OSRD 4366 PBL 22378 (1-1575)
Grenell, L. H., and others
Examination of enemy material (00-113; AC-77: M-119): Metallurgical examination of Japanese army 47 mm. H.E. projectiles. Progress report 131, Oct 7, 1944. Nov 1944.
10p photos, tables. MI \$5.50 Ph \$1.00.
- OSRD 4367 PBL 22379 (1-1526)
Grenell, L. H., and others
Examination of enemy material (00-113; AC-77: M-119): Metallurgical examination of Japanese propeller blades. Progress report 133, Sep 14, 1944. Nov 1944.
10p MI \$5.50 Ph \$1.00.
- OSRD 4368 PBL 22380 (1-1522)
Grenell, L. H., and others
Examination of enemy material (00-113; AC-77: M-119): Metallurgical examination of three Japanese aircraft landing hooks. Progress report 134, Oct 12, 1944. Nov 1944.
29p photos, tables. MI \$5.50 Ph \$2.00.
- OSRD 4371 PBL 16450 (1-1199)
Pittsburgh University
A method for the prevention of mold growth on optical instruments exposed to tropical conditions. Dec 1944.
18p MI \$5.50 Ph \$2.00.
- OSRD 4374 PBL 4635 (1-321)
Standard Oil Co., (Indiana) and others
Reports on investigation of accident to flame thrower under development by Standard Oil Co. (Indiana) and Herz Engineering Co. 1944.
105p illus. Ph \$7.00 MI \$1.50.
- OSRD 4383 PBL 16739 (1-1322)
Hess, W. F., and others
Final report on Evaluation of factors affecting crack sensitivity of welded joints: Part I. The effect of welding variables and restraint upon the stresses produced in arc welded joints: Final report Nov 1944.
127p diags, graphs. MI \$1.50 Ph \$9.00.

- OSRD 4385 PBL 5866 (1-480)
Pauling, Linus
Electron diffraction studies on the molecular structure of chemical warfare agents, to June 3, 1944.
27p illus. Ph \$2.00 MI \$5.00.
- OSRD 4386 PBL 16756 (1-1027)
Weinman, E. W., and Boegehold, A. L.
Heat treatment of national emergency steels for use in tanks, combat cars, gun mounts and other ordnance materiel (OD-115). Final report, Aug 31, 1944. Nov 1944.
59p tables, graphs. MI \$1.00 Ph \$4.00.
- OSRD 4388 PBL 33211 (2-970)
DeGarmo, E. Paul, and others
Residual stresses in ship welding (NS-304). Progress report, Mar 1-Jun 31, 1944. Nov 1944.
101p photos, drawings, diagrs, graphs. MI \$3.00 Ph \$7.00.
See also PB 33209, 33210, and 61376.
- OSRD 4389 PBL 51008 (4-789)
Simpson, Frank H., and Nicol, H.
The study of the effect of muzzle brake design on the recoil of guns, I. Progress rept. n.d.
21p tables, graphs, photo, drawings. MI \$1.00 Ph \$2.00.
- OSRD 4392 PBL 28585 (2-440)
Michigan University
Development and construction of an exposure meter for use with a standard view finder in aerial photography. Final report. Jan 1945.
50p photos, diagrs. MI \$1.00 Ph \$4.00.
- OSRD 4394 PBL 15857 (1-1414)
Voldrich, C. R., and others
Development of improved electrode coatings (OD-36-2). Progress report, Dec 15, 1943-Jul 15, 1944. Nov 1944.
90p MI \$1.00 Ph \$6.00.
- OSRD 4395 PBL 22895 (2-201)
Morton, J. T., and others
Effect of locked up stresses on ballistic performance of welded armor (OD-106): Investigation of the stress distribution across the thickness of weld. Progress report. Nov 1944.
24p curves, photo, tables. MI \$5.00 Ph \$2.00.
- OSRD 4396 PBL 22897 (2-38)
Morton, John T., and others
Effect of locked up stresses on ballistic performance of welded armor—Part II (OD-106). Final report, Nov 24, 1944. Nov 1944.
61p curves, diagrs, photos, tables. MI \$1.00 Ph \$5.00.
- OSRD 4397 PBL 20180 (1-1401)
Smith, C. B.
Flash welding of aluminum: Advisory report. Nov 1944.
38p photos, tables. MI \$5.00 Ph \$3.00.
- OSRD 4398 PBL 19538 (1-1410)
Ruder, M. E.
Development and extension of precision casting methods for production of miscellaneous war materiel items (OD-144) Part I: Final report, Jul 25, 1944. Nov 1944.
32p photos, drawings. MI \$5.00 Ph \$3.00.
- OSRD 4399 PBA 15603 (1-983)
LeTourneau, R. L., and others
Tests with an exhaust aerosol DDT generator on a 450 h.p. Stearman aircraft. (Progress report.) Nov 1944.
25p tabs, maps, diagrs. MI \$5.00 Ph \$2.00.
- OSRD 4402 PBL 22473 (2-238)
Wakeman, Selman A., and Starkey, Robt. L.
Paint destruction and metal corrosion: Microbiological aspects. Interim report 4: Feb 1-Nov 1, 1944. Nov 1944.
58p MI \$1.00 Ph \$4.00.
- OSRD 4403 PBL 19508 (1-1414)
Walmesley, J. I., and Marsh, J. S.
Review of literature on behavior of metals under multiaxial stresses: Final report. Part I. Nov 1944.
7p MI \$5.00 Ph \$1.00.
- OSRD 4404 PBL 16426 (1-1502)
Manildi, J. F., and others
Non-destructive testing of flashwelds (OD-85): Final report. Nov 1944. Progress reports, Jan-Sep 1944.
- | PB | OSRD | P | MI | Ph |
|-------|------|-----|--------|--------|
| 16762 | 3210 | 73 | \$1.00 | \$5.00 |
| 16428 | 4144 | 24 | .50 | 2.00 |
| 16427 | 4140 | 34 | .50 | 3.00 |
| 16426 | 4404 | 130 | 1.50 | 9.00 |
- OSRD 4405 PBL 4023 (1-405)
Viteles, Morris S., and others
Learning range estimation on the firing line. 1944.
20p MI \$5.00 Ph \$2.00.
- OSRD 4408 PBL 24889 (2-298)
Hill, G. Albert, and Clarke, R. G.
Colored flares. Progress report. Nov 1944.
60p diagrs, graphs. MI \$1.00 Ph \$4.00.
For suppl. see PB 24888.
- OSRD 4408-A PBL 24888 (2-213)
Hill, G. Albert, and Clarke, R. G.
Colored flares. Progress report. Feb. 1945.
6p tables. MI \$5.00 Ph \$1.00.
For original report see PB 24889.
- OSRD 4410 PBA 5957 (1-348)
Yoe, John H., and Lindaley, Charles H.
Determination of water in hydrocyanic acid, to November 23, 1944. 1944.
9p illus. MI \$5.00 Ph \$1.00.
- OSRD 4411 PBA 5860 (1-663)
Tarbell, D. S., and Lindstrom, E. G.
Additional observations on the synthesis of thiocarbazones, especially DPT. Nov 1944.
10p.
- OSRD 4412 PBA 5861 (1-533)
Tarbell, D. S., and Lindstrom, E. G.
Unsymmetrical diarylethylenes as detectors. 1944.
18p Ph \$2.00 MI \$5.00.
- OSRD 4413 PBL 5865 (1-533)
Tarbell, D. S., and Mystrach, V. P.
Thickketones as detectors for CW agents, to November 22, 1944. 1944.
5p Ph \$1.00 MI \$5.00.
- OSRD 4414 PBA 5955 (1-355)
Yoe, John H., and others
Determination of fluorine in certain fluoro-organic compounds in water, to November 20, 1944. 1944.
27p MI \$5.00 Ph \$2.00.
- OSRD 4415 PBL 19778 (2-15)
Harris, Louis, and others
Sputtered and evaporated thermopiles and studies of thin films of plastic materials: Final report Mar 1943.
27p illus. MI \$5.00 Ph \$2.00.
- OSRD 4416 PBL 19653 (1-1353)
Friedrichs, K. O., and others
On supersonic compressors and nozzles. Oct 1944.
21p diagrs, tables. MI \$5.00 Ph \$2.00.
Suppl. to PB 19652.
- OSRD 4417 PBL 28553 (2-219)
Polaroid Corp.
Report on optical plastic material: Synthesis, fabrication, and instrument design. Feb 1945.
414p photos. MI \$9.00 Ph \$28.00.
- OSRD 4420 PBL 22381 (1-1526)
Grenell, L. H., and others
Examination of enemy materiel (OD-113; AC-77; M-119): Metallurgical examination of a Japanese Kinast-43 aircraft engine. Progress report 127, Sep 18, 1944. Dec 1944.
69p photos, tables. MI \$1.00 Ph \$5.00.
- OSRD 4421 PBL 22383 (1-1525)
Jackson, L. R., and others
Examination of enemy materiel (OD-113; AC-77; M-119): Metallurgical examination of a gyro compass from a Japanese aircraft "Val" Mark I. Progress report 135, Oct 26, 1944. Dec 1944.
14p photos, tables. MI \$5.00 Ph \$1.00.
- OSRD 4422 PBL 22382 (1-1525)
Jackson, L. R., and others
Examination of enemy materiel (OD-113; AC-77; M-119): Metallurgical examination of a German aircraft fuel consumption meter and a blinker-type oxygen flowmeter. Progress report 137, Oct 30 1944. Dec 1944.
19p MI \$5.00 Ph \$2.00.
- OSRD 4423 PBL 22384 (1-1507)
Grenell, L. H., and others
Examination of enemy materiel (OD-113; AC-77; M-119): Metallurgical examination of a Japanese bomb hoist and release. Progress report 136, Oct 30, 1944. Dec 1944.
12p tables, photos. MI \$5.00 Ph \$1.00.
- OSRD 4424 PBL 22395 (1-1522)
Grenell, L. H., and others
Examination of enemy materiel (OD-113; AC-77; M-119): Metallurgical examination of Oiso landing strut and wheel from Japanese "Sally," Mark II. Progress report 139, Oct 31, 1944. Dec 1944.
18p photos, tables. MI \$5.00 Ph \$2.00.
- OSRD 4429 PBL 22385 (1-1522)
Hausman, C. E., and others
Examination of enemy materiel (OD-113; AC-77; M-119): Metallurgical examination of airframe sections from Japanese aircraft. Progress report 138, Oct 31, 1944. Dec 1944.
14p photos, tables. MI \$5.00 Ph \$1.00.
- OSRD 4432 PBL 4633 (1-321)
Standard Oil Company (Indiana)
Development of flame thrower from M-5 tank. 1944.
143p illus. Ph \$10.00 MI \$1.50.

- OSRD 4433 PBL 28594 (2-535)
Bartley, S. Howard, and Chute, Eloise
The effects of binocular magnification on the visibility of targets at low levels of illumination. Final report. Nov 1944.
58p photos. MI \$2.00 Ph \$5.00.
- OSRD 4434 PB 4186 (1-324)
Standard Oil Development Company
Development of Mobile Servicing Unit for Flame Throwers. 1944.
46p MI \$1.50 Ph \$4.00.
- OSRD 4442 PBL 16469 (1-1247)
Butts, Allison, and Reiber, Paul L., Jr.
Investigation of the effects of impurities on the ferro-magnetism of nonferrous alloys (OD-156): Progress report, Jul 15-Oct 15, 1944. Dec 1944.
57p tables, graphs. MI \$1.00 Ph \$4.00.
- OSRD 4444 PBL 28603 (2-441)
Mihalyi, J., and others
Antivibration-mounted binocular and monocular. Final report. Feb 1945.
74p photos, drawings, curves. MI \$2.00 Ph \$5.00.
- OSRD 4446 PBL 28699 (2-304)
Mihalyi, J., and Harvey, D. C.
High-speed anti-glare shutter production design. Final report. Sep 1945.
34p drawings, photos. MI \$1.00 Ph \$3.00.
- OSRD 4447 PBA 15605 (1-983)
Laher, V. K., and others
Toxicity of DDT to mosquitoes. Effect of particle size on the efficiency of oil aerosols bearing DDT. (Progress report) to October, 1944. Dec 1944.
29p graphs, diagrs, tabs. MI \$1.50 Ph \$2.00.
- OSRD 4452 PBL 19659 (2-322)
Rushton, J. H., and others
Central Engineering Laboratory, National Defense Research Committee. Section 11.1 (Oxygen): Monthly progress report, Oct 1 to 31, 1944. Nov 1944.
122p diagr, graphs, tables. MI \$1.50 Ph \$9.00.
- OSRD 4453 PBL 20225 (1-1577)
Duvet, P. E., and others
Behavior of the metals under dynamic conditions (NS-109): Progression of yielding. Progress report, Oct 15, 1944. Dec 1944.
10p curves, drawing. MI \$1.50 Ph \$1.00.
- OSRD 4454 PBL 22286 (1-1507)
Grenell, L. H., and others
Examination of enemy materiel (OD-113; AC-77; N-119): Metallurgical examination of two Japanese mechanical impact fuzes and containers. Progress report 142, Nov 7, 1944. Dec 1944.
9p photos. MI \$1.50 Ph \$1.00.
- OSRD 4455 PBL 22387 (1-1526)
Grenell, L. H., and others
Examination of enemy materiel (OD-113; AC-77; N-119): Metallurgical examination of parts from a Japanese Mamoru-11 aircraft engine. Progress report 140, Oct 31, 1944. Dec 1944.
34p photos, tables. MI \$1.50 Ph \$3.00.
- OSRD 4457 PBL 15828 (1-1025)
Edlund, D. L.
Development of high strength gun steels; Progress report, Aug 15-Nov 15, 1944. Dec 1944.
13p MI \$1.50 Ph \$1.00.
- OSRD 4460 PBM 5952 (1-560)
Salzberg, P. L., and others
Protective and therapeutic agents for war gases—preparation of new antidotes, to June 15, 1943. 1944.
53p MI \$1.00 Ph \$4.00.
- OSRD 4461 PBL 22872 (2-140)
Urry, William D., and Hannan, P. J.
The state of equilibrium among the carbon atoms of a propellant gas. Dec 1944.
34p photos, tables. MI \$1.50 Ph \$3.00.
- OSRD 4462 PBL 25406 (2-230)
Sparkman and Stephens, Inc., New York
Army 2 1/2 ton amphibian truck 6x6, GMC OUKW-353, Final report. Nov 1944.
127p graphs, plans, photos. MI \$3.00 Ph \$9.00.
- OSRD 4463 PBL 22388 (2-34)
Bartholomew, E. L., Jr., and others
Examination of enemy materiel (OD-113; AC-77; N-119): Metallurgical investigation of German 170 mm. gun. Progress report 102, Oct. 30, 1944. Dec 1944.
47p photos, drawings. MI \$1.50 Ph \$4.00.
- OSRD 4464 PBL 22389 (1-1505)
Bartholomew, E. L., Jr., and others
Examination of enemy materiel (OD-113; AC-77; N-119): Metallurgical investigation of German 150 mm. gun tube. Progress report 103, Nov 10, 1944. Dec 1944.
18p drawings, photos. MI \$1.50 Ph \$2.00.
- OSRD 4465 PBL 22390 (1-1521)
Grenell, L. H., and others
Examination of enemy materiel (OD-113; AC-77; N-119): Metallurgical examination of a tail wheel assembly and landing gear hydraulic retracting strut from a Japanese aircraft "Dinah." Progress report 141, Nov 3, 1944. Dec 1944.
17p tables, photos. MI \$1.50 Ph \$2.00.
- OSRD 4468 PBL 4649 (1-323)
Thompson, Norman J., and Kling, Alan L.
Evaluation of incendiary fuels and bombs on industrial building occupancies. 1944.
42p illus. Ph \$3.00 MI \$1.50.
- OSRD 4469 PBL 4645 (1-323)
Thompson, N. J., and Kling, Alan L.
Design and testing of a simple target structure to simulate typical industrial incendiary centers. 1944.
42p illus. Ph \$3.00 MI \$1.50.
- OSRD 4470 PBA 5958 (1-352)
Mason, C. W., and Delemater, G. E.
Microscopical properties of 2,4-dinitrophenylhydrazine derivatives of certain CW agents. 1944.
23p illus. Ph \$2.00 MI \$1.50.
- OSRD 4472 PBL 5229 (1-372)
Hay, G. E.
Gun equilibrators I. 1944.
59p illus. Ph \$4.00 MI \$1.00.
- OSRD 4475 PBL 16424 (1-1027)
Tucker, C. W., and others
Residual stresses in cold-drawn nonferrous alloys (OD-25): An X-ray study. Final report, part IV: Jun 15, 1944-Oct 31, 1944. Dec 1944.
156p graphs. MI \$2.00 Ph \$11.00.
- OSRD 4479 PBL 43042 (3-790)
Kell, R. D.
Improved sensitivity of television equipment. Progress report No. 6, Apr 1-Jun 1, 1944. Jun 1944.
4p diagr. MI \$1.00 Ph \$1.00.
See also PB 43037-PB 43041.
- OSRD 4480 PBL 43043 (3-790)
Kell, R. D.
Improved sensitivity of television equipment. Progress report No. 7, Jun 1-Aug 1, 1944. Aug 1944.
3p MI \$1.00 Ph \$1.00.
See also PB 43037-PB 43042.
- OSRD 4484 PBL 19619 (2-55)
Kelly, Truman L.
An activity-preference test for the classification of service personnel. Final report, Dec 1944.
168p charts, tables. MI \$2.00 Ph \$12.00.
- OSRD 4487 PBL 34766 (3-255)
Africano, A., and McClure, F. T.
Investigation of a proposed liquid carbon dioxide rocket. Dec 1944.
16p diagr, tables. MI \$1.00 Ph \$2.00.
- OSRD 4488 PBL 5230 (1-356)
Massachusetts Institute of Technology, High Voltage Laboratory
Final report on the M.I.T. project in high voltage radiography. 1945. Vol 1—Brief introduction and summary.
20p Ph \$2.00, complete report \$47.00.
MI \$1.50, complete report \$7.50.
- OSRD 4488 PBL 5231 (1-356)
Massachusetts Institute of Technology, High Voltage Laboratory
Final report on the M.I.T. project in high voltage radiography. 1945. Vol. 2—Two-million-volt electrostatic X-ray generator.
152p illus. Ph \$11.00, complete report \$47.00. MI \$2.00, complete report \$7.50.
- OSRD 4488 PBL 5232 (1-356)
Massachusetts Institute of Technology, High Voltage Laboratory
Final report on the M.I.T. project in high voltage radiography. 1945. Vol. 3—Design and developmental research in connection with high voltage electrostatic generator.
133p illus. Ph \$9.00, complete report \$47.00. MI \$1.50, complete report \$7.50.
- OSRD 4488 PBL 5233 (1-356)
Massachusetts Institute of Technology, High Voltage Laboratory
Final report on the M.I.T. project in high voltage radiography. 1945. Vol 4.—Production, absorption and scattering of high voltage X-rays.
113p illus. Ph \$8.00, complete report \$47.00. MI \$1.50, complete report \$7.50.
- OSRD 4488 PBL 5234 (1-356)
Massachusetts Institute of Technology, High Voltage Laboratory
Final report on the M.I.T. project in high voltage radiography. 1945. Vol. 5—High voltage radiographic techniques and accessories.
106 illus. Ph \$8.00, complete report \$47.00. MI \$1.50, complete report \$7.50.

- OSRD 4488 PBL 5235 (1-356)
Massachusetts Institute of Technology, High Voltage Laboratory
Final report on the M.I.T. project in high voltage radiography. 1945. Vol. 6—Photographic aspects of high voltage radiography. 81p illus. Ph \$6.00, complete report \$47.00. MI \$1.00, complete report \$7.50.
- OSRD 4488 PBL 5236 (1-356)
Massachusetts Institute of Technology, High Voltage Laboratory
Final report on the M.I.T. project in high voltage radiography. 1945. Vol. 7—Detailed drawings of X-ray generator parts. 97p illus. Ph \$7.00, complete report \$47.00. MI \$1.00, complete report \$7.50.
- OSRD 4489 PBL 18334 (1-1270)
Lindsay, Donald B., and others
A radar trainer and flash-reading method for operators of the plan position indicator. Dec 1944.
18p photo, diagr. MI \$1.50 Ph \$2.00.
- OSRD 4490 PBL 18469 (1-1425)
Munee, M. H., and Richart, F. E.
Impact tests of reinforced concrete beams, III, Final report. Dec 1944.
82p graphs, tables, photos. MI \$1.00 Ph \$6.00.
- OSRD 4493 PBA 9383 (1-761)
Sagenkahn, M. L., and Fink, H. L.
Vapor-liquid equilibrium for the system oxygen-nitrogen-argon, to December 7, 1944. Dec 1944.
133 illus. MI \$1.50 Ph \$9.00.
- OSRD 4494 PBA 5950 (1-472)
Yoe, John H., and others
Determination of iron in CK, cyanuric chloride, and CK polymer, to December 9, 1944. 1944.
14p MI \$1.50 Ph \$1.00.
- OSRD 4497 PBL 15829 (1-1261)
Mravec, J. F., and others
Control of basic open hearth melting practice for the manufacture of wrought gun tubes (OD-34-3). Final report, Oct 1, 1944. Dec 1944.
56p MI \$1.00 Ph \$4.00.
- OSRD 4499 PBL 28592 (2-440)
Carnegie Institution of Washington, Mount Wilson Observatory
Optical tests of the Bausch and Lomb telestigmat F/8, focal length 40 inches. Dec 1944.
17p photos, curves. MI \$1.00 Ph \$2.00.
- OSRD 4500 PBL 28634 (2-440)
Eastman Kodak Co., Rochester, N. Y.
The molding of glass for optical purposes. Sep 1945.
63p photos, drawing. MI \$2.00 Ph \$5.00.
- OSRD 4501 PBL 28590 (2-441)
Henyey, L. G., and others
Reflex sights. Final report. Apr 1945.
39p MI \$1.00 Ph \$3.00.
- OSRD 4502 PBL 28523 (2-613)
Henyey, L. G., and others
Unit power periscopes. Final report Sep 1945.
34p drawings and tables. MI \$1.00 Ph \$3.00.
- OSRD 4503 PBL 16447 (1-1043)
Henyey, L. G., and others
Tank and antitank telescopes. Oct 1945.
55p MI \$1.00 Ph \$4.00.
- OSRD 4504 PBL 28519 (2-613)
Henyey, Louis G., and Greenstein, Jesse L.
Wide field fast cameras. Final report. Apr 1945.
31p drawings, tables. MI \$1.00 Ph \$3.00.
- OSRD 4505 PBL 28691 (2-358)
Henyey, L. G., and Greenstein, J. L.
Miscellaneous optical designs. Final report. Oct 1945.
56p diagrs. MI \$2.00 Ph \$4.00.
- OSRD 4506 PBL 28536 (2-359)
Perkin-Elmer Corp.
Optical working of synthetic crystals. Final report. Apr 1945.
7p MI \$1.00 Ph \$1.00.
- OSRD 4507 PBL 22308 (1-1580)
Grenell, L. H., and others
Examination of enemy materiel; Metallurgical examination of a German 7.92 mm. MG-17 aircraft machine gun. Progress report 143, Nov 19, 1944. Dec 1944.
21p photos. MI \$1.50 Ph \$2.00.
- OSRD 4512 PBL 22475 (2-238)
Nelson, T. C., and Kodet, E. R.
Paint destruction and metal corrosion: Zoological aspects. Interim report 5, Feb 1-Nov 1, 1944. Dec 1944.
15p photos. MI \$1.50 Ph \$2.00.
- OSRD 4513 PBA 34752 (2-945)
Shanon, Leland, and others
Fungus-proofing of textiles and cordage for use in tropical service. Jan 1945.
60p MI \$2.00 Ph \$4.00.
- OSRD 4515 PBL 31012 (2-990)
Gregg, E. C., Jr.
Description of the equipment used in the measurement of underwater acoustic transients. Dec 1944.
15p diagrs. MI \$1.00 Ph \$1.00.
- OSRD 4516 See OSRD 3523.
- OSRD 4517 PBL 63650 (5-234)
Grinstead, Carl E.
Inductor compass tests on a M3A1 light tank, June-July 1944. Nov 1944.
39p photos, graphs. MI \$1.00 Ph \$3.00.
- OSRD 4519 PBL 28604 (2-535)
Carnegie Institution of Washington, Mount Wilson Observatory
Optical tests of the Harvard College Observatory distortionless apochromat F/8, focal length 36 inches. Oct 1944.
24p photos, curves. MI \$1.00 Ph \$2.00.
- OSRD 4521 PBL 4650 (1-318)
Hershberg, E. B., and Dakin, Morrill
Modified M-52 two-pound magnesium bomb for use against Japan. 1945.
21p illus. Ph \$2.00 MI \$1.50.
- OSRD 4522 PBL 4608 (1-370)
Betts, R. L.
Effect of thickener and gasoline on the properties of Napalm fuels. 1945.
35p Ph \$3.00 MI \$1.50.
- OSRD 4529 PBL 19824 (2-39)
Stout, R. D., and others
Methods of testing weldability of steel plates and shapes: Part II. Final report, Sep 1944. Jan 1945.
21p charts, curves. MI \$1.50 Ph \$2.00.
- OSRD 4530 PBL 28596 (2-441)
McMath, Robert R., and Goldberg, Leo
Stabilizing devices for aerial cameras. Dec 1944.
8p photos, diagrs. MI \$1.00 Ph \$1.00.
- OSRD 4531 PBA 5869 (1-387)
Fuson, R. C., and others
2-Chloroethyl 2,2-dichloroethyl sulfide (2-chloro-H), to December 1, 1944. 1945.
14p illus. Ph \$1.00 MI \$1.50.
- OSRD 4532 PBA 5870 (1-538)
Fuson, R. C., and others
Synthesis and characterization of 2-chloroethyl 2-hydroxyethyl sulfide (CH), to December 1, 1944. 1945.
13p Ph \$1.00 MI \$1.50.
- OSRD 4533 PBA 5854 (1-496)
Hamilton, C. S., and others
Organic arsenicals and other toxic agents, to Sept. 1, 1944. 1945.
63p MI \$1.00 Ph \$5.00.
- OSRD 4535 PBA 5891 (1-476)
Bergmann, Max, and others
Chemical reactions of the nitrogen mustards. 1945.
26p Ph \$2.00 MI \$1.50.
- OSRD 4536 PBA 5899 (1-1142)
Bergmann, Max, and others
Chemical reactions of semi-H and H, to December 15, 1944. Jan 1945.
25p MI \$1.50 Ph \$2.00.
- OSRD 4538 PBL 5959 (1-557)
Northrop, John H.
Electro-magnetic gas pump. Informal progress report to November 20, 1944. 1945.
12p illus. MI \$1.50 Ph \$1.00.
- OSRD 4539 PBL 32213 (2-817)
LaMer, Victor K., and others
Testing of daytime distress signals. Progress report, Sep 19, 1944. Jan 1945.
15p curve. MI \$1.00 Ph \$1.00.
- OSRD 4540 PBL 28620 (2-530)
Ryon, L. B.
Suppression of dust around artillery emplacements. Chemical treatment of ground. Progress report. Jan 1945.
40p photos. MI \$1.00 Ph \$3.00.
- OSRD 4541 PBL 33247 (2-822)
Eastman Kodak Co., Rochester, N. Y.
Influence of color contrast on visual acuity. Nov 1944.
120 p photos, drawings, tables. MI \$3.00 Ph \$8.00.
- OSRD 4543 PBL 19822 (1-1523)
Godfrey, M. J.
Corrosion fatigue failure of aircraft control cables (N-101): Fatigue tests under service loads. Progress report 5, Jan 1, 1944-Nov 30, 1944. Dec 1944.
93p tables, photos, curves, drawings. MI \$1.00 Ph \$7.00.
See also PB's 19812, 19813, 19815, 19821, 19831, 19832 and 19835.

- OSRD 4544 PBL 20224 (1-1504)
Stout, R. D., and others
Weldability of steel for hull construction (NS-255): Methods of testing weldability of steel plates and shapes. Progress report, Oct 1944. Dec 1944.
13p tables, graphs. MI \$1.50 Ph \$1.00.
- OSRD 4546 PBA 5912 (1-1142)
Bergmann, Max, and others
Chemical reactions of divinyl sulfone, H Sulfone, and divinyl sulfoxide: Progress report, to Dec 1, 1944. Jan 1945.
72p MI \$1.00 Ph \$5.00.
- OSRD 4548 PBL 22309 (1-1521)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of an M.E. 15 cm. Japanese naval projectile. Progress report 145, Nov 30, 1944. Jan 1945.
8p photos. MI \$1.50 Ph \$1.00.
- OSRD 4549 PBL 22311 (1-1581)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of two welded aluminum sections from a German mine. Progress report 148, Dec 12, 1944. Jan 1945.
6p diagrams. MI \$1.50 Ph \$1.00.
- OSRD 4550 PBL 15280 (1-1034)
Biberstein, Frank A., Jr., and others
Static band pressures in 37mm. projectiles, 1. Dec 1944.
72p photos, tabs, charts, graphs.
MI \$1.00 Ph \$5.00.
- OSRD 4552 PBL 50796 (4-870)
Eastman Kodak Co., Rochester, N.Y.
Investigations of high-speed aerial camera shutters. Jan 1944.
12p photo. MI \$1.00 Ph \$1.00.
- OSRD 4553 PBL 20226 (1-1488)
Davis, Harmer E., and others
Behavior of steel under conditions of multi-axial stresses and effect of welding and temperature on this behavior (NS-308): Pilot tests of small tubular specimens. Progress report, Oct 15, 1944. Jan 1945.
77p photos, drawings, diagrs, graphs.
MI \$1.00 Ph \$5.00.
- OSRD 4554 PBL 18743 (1-1025)
Cross, Howard C.
Machining data on heat-resisting metals for gas turbine parts (M-102): Progress report. Jan 1945.
22p MI \$1.50 Ph \$2.00.
- OSRD 4555 PBL 9381 (1-605)
Lobo, M. E.
Report on "Oxygen plant development." 1945.
58p illus. MI \$5.00 Ph \$38.00.
- OSRD 4557 PBL 58228 (4-967)
Gulf Research & Development Co., Pittsburgh
Experimental investigations in connection with high angle dirigible bombs: Early RAZOM experiments. Progress report, Sep 1, 1944. Sep 1944.
72p photos, diagrs, graphs.
MI \$2.00 Ph \$5.00.
- OSRD 4560 PBL 58102 (4-865)
Gulf Research & Development Co., Pittsburgh
Suggestions for AZOM bomb (VB-1) manual for bombardiers. Nov 1944.
26p graphs, diagrs. MI \$1.00 Ph \$2.00.
- OSRD 4561 PBL 22873 (2-338)
Cole, R. H.
The use of electrical cables with piezo-electric gauges. Jan 1945.
49p charts, graphs. MI \$1.50 Ph \$4.00.
- OSRD 4564 PBA 30752 (2-827)
Lingane, James J.
Polarographic investigation of nitro compounds. Progress report. Jan 1945.
9p tables. MI \$1.00 Ph \$1.00.
- OSRD 4565 PBL 32214 (2-743)
Champney, M. H., and others
The development of a portable aerosol smoke pot. Final report. Oct 2, 1944. Jan 1945.
35p diagrs, photos. MI \$1.00 Ph \$3.00.
- OSRD 4567 See OSRD 4086
- OSRD 4570 PBL 22874 (2-336)
Lampson, C. W., and Bleakney, Walker
Mobile oscillographic laboratory. Final report. Jan 1945.
52p Diagrs. MI \$1.00 Ph \$5.00.
- OSRD 4571 PBL 21121 (1-1444)
MacLeod, James A.
Sea marking devices. Jan 1945.
18p drawings. MI \$1.50 Ph \$2.00.
- OSRD 4576 PBL 11215 (1-797)
Kouwenhoven, W. B.
Development of methods for determining the proper seating of gliding-metal rotating bands on 105 mm. shells in production: Progress report. Jan 1945.
39p photos, drawings. MI \$1.50 Ph \$3.00.
- OSRD 4583 PBL 22310 (1-1582)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of Japanese 75 mm. A.A. ammunition. Progress report 144, Nov 24, 1944. Jan 1945.
20p MI \$1.50 Ph \$2.00.
- OSRD 4584 PBL 22476 (1-1602)
Maurer, Frank W.
Full-face oxygen mask incorporating ventilated fog-proof lenses. Jan 1945.
18p photos. MI \$1.50 Ph \$2.00.
- OSRD 4585 PBM 5908 (1-559)
Hutchens, John O., and others
A new chamber for the determination of toxicities by total, body, or head exposure, to December 12, 1944. 1945.
15p illus. Ph \$1.00 MI \$1.50.
- OSRD 4586 PBA 5905 (1-496)
Folkers, Karl, and others
Studies on the preparation of nonvolatile toxic agents, to December 31, 1943. 1945.
12p Ph \$1.00 MI \$1.50.
- OSRD 4587 PBL 33350 (2-863)
Fonda, G. R.
Stimulation and phosphorescence of zinc sulfide phosphors. Report IV. Dec 1944.
7p diagrs. MI \$1.00 Ph \$1.00.
- OSRD 4588 PBL 33384 (2-852)
Barnett, C. E.
Development of improved long afterglow phosphors. Progress report, Jun 1-Oct 10, 1944. Oct 1944.
8p curves. MI \$1.00 Ph \$1.00.
- OSRD 4593 PBL 22312 (1-1582)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of a type 91, Change 3, 18-inch, Japanese torpedo. Progress report 146, Dec 8, 1944. Jan 1945.
54p tables. MI \$1.00 Ph \$5.00.
- OSRD 4597 PBL 22313 (1-1573)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of Japanese aircraft armor plate. Progress report 148, Dec 11, 1944. Jan 1945.
7p photos, tables. MI \$1.50 Ph \$1.00.
- OSRD 4600 PBA 5938 (1-471)
Sease, J. W., and others
A study of the iodoplatinate method for the determination of H in 50% acetic acid, to Dec 8, 1944. Jan 1945.
75p illus. MI \$1.00 Ph \$5.00.
- OSRD 4601 PBL 4846 (1-323)
Thompson, Norman J., and Kling, Alan L.
Modified M50 incendiary bomb and development of test target. 1945.
23p illus. Ph \$2.00 MI \$1.50.
- OSRD 4602 PBL 19821 (1-1523)
Godfrey, H. J., and others
Corrosion fatigue failure of aircraft control cables (M-101): Miscellaneous tests. Progress report 6, Jan 1, 1944-Dec 31, 1944. Jan 1945.
56p photos, diagrs, tables, curves.
MI \$1.00 Ph \$4.00.
- OSRD 4604 PBM 5953 (1-481)
Salzberg, P. L., and others
Therapeutic agents for war gases—BAL derivatives and analogs. 1945.
59p Ph \$4.00 MI \$1.00.
- OSRD 4612 PBL 12141 (1-882)
Miklowitz, Julius
The initiation and propagation of the plastic zone in mild steel tension bar. Final Report. Jan 1945.
73p illus. MI \$1.00 Ph \$5.00.
- OSRD 4613 PBL 5220 (1-483)
Almy, G. M., and others
Three to twenty million volt radiography. Progress Report, Jan. 1, 1945. 1945.
29p illus. Ph \$2.00 MI \$1.50.
- OSRD 4615 PBL 5583 (1-454)
Hotelling, Harold
Air testing sample bomb sights. 1944.
103p MI \$1.50 Ph \$7.00.
- OSRD 4619 PBL 22875 (2-847)
Silverman, Daniel, and Lang, H. M.
Development of blast-pressure gauges and recording equipment, to October 1, 1944. Jan 1945.
58p photos, diagrs. MI \$1.00 Ph \$4.00.
See also PB 23192.
- OSRD 4620 See OSRD 3827.

- OSRD 4621 PBL 20221 (1-1499)
Duvrez, P. E., and others
Behavior of metals under dynamic conditions (MS-109): Preliminary study of the influence of rapid loading and time at load on the initiation of plastic deformation in tension. Progress report, Dec 1, 1944. Jan 1945.
32p photos, diagrs, tables. MI \$5.00 Ph \$3.00.
- OSRD 4623 See OSRD 3523.
- OSRD 4626 PBL 6703 (1-551)
Sachs, George, and Lubahn, J. D.
Correlation of information available on the fabrication of aluminum alloys (MA-126): Section V—Formability of aluminum alloys for use in military aircraft. Part III—Stretch forming of angles with outer leg in tension. Final report, Dec 1944.
39p curves, photos, tables. MI \$5.00 Ph \$3.00.
- OSRD 4627 PBA 5939 (1-408)
Gould, Clark, and others
The recovery of H vapor from air by bubblers containing 50% acetic acid, diethyl phthalate, 0.5 N sulfuric acid, ethanol, or pyridine B, 1945.
125p Ph \$9.00 MI \$1.50.
- OSRD 4629 PBL 11564 (1-674)
Tarbell, D. S., and others
A systematic scheme for the detection of toxics on plain silica tubes. 1945.
31p MI \$5.00 Ph \$3.00.
- OSRD 4636 PBL 13294 (1-900)
Conrad, Herbert S.
A statistical evaluation of the basic classification test battery (Form I). May 1945.
105p MI \$1.50 Ph \$7.00.
- OSRD 4637 PBA 5907 (1-1427)
Coon, Julius M., and others
Phosgen: Special studies to January 2, 1945.
39p MI \$5.00 Ph \$3.00.
- OSRD 4639 PBM 5906 (1-430)
Lushbaugh, Clarence C., and others
The intrapulmonic accumulation and effects on inhaled lubricating oil and S.G.F. No. 1 oil in monkeys, to January 8, 1945. 1945.
18p Ph \$2.00 MI \$5.00.
- OSRD 4645 PBL 15647 (1-1014)
Ladenburg, Rudolph, and Winckler, John
Description of Flash Integrator, Model II. Report Princeton University Station. National Defense Research Committee, Section 16.5. Dec 1944.
26p photos, diagrs. MI \$5.00 Ph \$2.00.
- OSRD 4646 PBL 12070 (1-1097)
Ladenburg, Rudolf, and Winckler, John
Description of flashmeter. Oct 1944.
27p photos, diagrs, tabs, charts, graphs. MI \$5.00 Ph \$2.00.
- OSRD 4647 PBL 19823 (2-35)
De Forest, A. V., and Shepler, P. R.
Investigation of factors reducing the effective ductility of welded steel members. Final report, Nov 1, 1943—Nov 15, 1944. Feb 1945.
51p photos, graphs, drawings. MI \$1.00 Ph \$4.00.
- OSRD 4648 PBL 19774 (1-1366)
Dienel, H. F.
Sound level measurements in U. S. Military airplanes, volume 3. Feb 1945.
65p MI \$1.00 Ph \$5.00.
See also OSRD 3681.
- OSRD 4653 PBL 19544 (1-1497)
Barrett, Charles, and others
Deformation characteristics of magnesium alloys (MA-148): Final report. Jan 1945.
88p MI \$1.00 Ph \$6.00.
- OSRD 4654 PBL 16431 (1-1323)
Voldrich, C. B., and others
Flash welding of alloy steels for ordnance (OD-86): Part I—controlled atmospheres. Final report, Mar 15, 1944 to Dec 31, 1944. Jan 1945.
67p diagrs, photos, tables. MI \$1.00 Ph \$5.00.
- OSRD 4656 PBL 18485 (1-941)
Wyman, L. L.
Development and extension of precision casting methods for production of miscellaneous war material items (OD-144). Final report, Part II. Dec 1944. Jan 45.
38p illus. MI \$5.00 Ph \$3.00.
- OSRD 4662 PBA 5489 (1-313)
Kaplan, L., and Moller, C. R.
The synthesis of toxic carbamates of amino-alcohols (Doryl homologs and analogs), to November 15, 1944. 1945.
19p Ph \$2.00 MI \$5.00.
- OSRD 4672 PBA 30753 (2-627)
Moyes, Richard M.
The estimation of moisture in solventless double-base powders. Progress report. Feb 1945.
24p MI \$1.00 Ph \$2.00.
- OSRD 4673 PBL 2570 (1-212)
Pray, H. A., and Fink, F. W.
Final report on development and evaluation of an economical corrosion resisting alloy for Quartermaster items. 1945.
24p MI \$5.00 Ph \$2.00.
- OSRD 4676 PBA 5909 (1-481)
Price, Charles C., and others
Equilibria in Aqueous Chloramine-T solutions—F. 1945.
9p illus. Ph \$1.00 MI \$5.00.
- OSRD 4677 PBA 5482 (1-353)
Tarbell, D. S., and Bunnott, J. F.
The reaction between DBJ and arsenicals. 1945.
24p illus. Ph \$2.00 MI \$5.00.
- OSRD 4678 PBA 4459 (1-674)
Mason, C. W., and others
The microscopical identification of derivatives of certain chemical warfare agents by reaction with 2, 4-Dinitrophenylhydrazine, to Jan. 30, 1945. 1945.
22p MI \$5.00 Ph \$2.00.
- OSRD 4679 PBA 34800 (3-7)
Lee, Thomas
The volumetric determination of H by means of chloramine T or other oxidizing agents. Progress report, Jan 19, 1945. Feb 1945.
51p graphs, tables. MI \$2.00 Ph \$4.00.
- OSRD 4680 PBA 5910 (1-348)
Sease, J. W.
A study of the chloramine T-o-tolidine method for the determination of H in 50% acetic acid. 1945.
51p illus. Ph \$4.00 MI \$1.00.
- OSRD 4681 PBL 12160 (1-904)
Mason, Harry M.
Phonetic characteristics of words as related to their intelligibility in aircraft-type noise. Feb 1945.
30p MI \$5.00 Ph \$2.00.
- OSRD 4682 PBA 5918 (1-574)
Northrop, John H., and Gettemans, John M.
Portable apparatus for rapid estimation of H or other gases which react with bromine, to December 20, 1944. 1945.
18p illus. Ph \$2.00 MI \$5.00.
- OSRD 4683 PBA 5878 (1-537)
Bartlett, Paul D., and Swain, C. Gardner
The mechanism of hydrolysis and displacement of mustard chlorohydrin and mustard in aqueous solutions, to September 25, 1944. 1945.
66p illus. Ph \$5.00 MI \$5.00.
- OSRD 4684 PBL 12052 (1-781)
Hartley, Eugene L., and Jones, Dorothea B.
The selection of emotionally unstable personnel by battle noise equipment. Feb 1945.
33p MI \$5.00 Ph \$1.00.
- OSRD 4690 PBL 33253 (2-824)
Stockbarger, Donald C., and Early, Marie
Artificial optical fluorite. Dec 1944.
187p photos, diagrs, graphs, tables. MI \$4.00 Ph \$13.00.
- OSRD 4691 PBL 28621 (2-626)
Bates, J. Bertram
Advanced positions identification. Final report. Feb 1945.
23p MI \$1.00 Ph \$2.00.
- OSRD 4695 PBL 22314 (1-1580)
Bartholomew, E. L., Jr., and others
Examination of enemy material: Metallurgical investigation of German 50 mm. gun tubes. Progress report 104, Jan 1, 1945. Feb 1945.
53p drawings, graphs, photos. MI \$4.00 Ph \$4.00.
- OSRD 4696 PBL 22315 (1-1582)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of Japanese 37 mm. A.P., H.E. ammunition. Progress report 147, Jan 8, 1945. Feb 1945.
17p diagrs. MI \$5.00 Ph \$2.00.
- OSRD 4697 PBL 22316 (1-1567)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of hardware from Japanese and German parachute harnesses. Progress report 151, Jan 12, 1945. Feb 1945.
11p photos, tables. MI \$5.00 Ph \$1.00.
- OSRD 4699 PBL 13102 (1-823)
Eyring, Carl, F.
Jungle acoustics. Feb 1945.
162p illus. MI \$2.00 Ph \$11.00.
- OSRD 4700 PBL 32216 (2-744)
Rice, R. L., and others
Plasticized white phosphorus in small smoke munitions. Progress report, Nov 15, 1944. Feb 1945.
25p diagrs, photos, tables. MI \$1.00 Ph \$2.00.

- OSRD 4701 PBA 40556 (3-549)
Bartlett, Paul D., and others
Composition of a sample of technical DDT from the DuPont Company. Progress report, Nov 9, 1944. Feb 1945.
15p graph. MI \$1.00 Ph \$2.00.
See also PB 5488 and PB 6011.
- OSRD 4702 PBL 5488 (1-470)
Drake, Nathan L., and others
The composition of a sample of technical DDT from Merck & Co., Inc., to December 15, 1944. 1945.
31p Ph \$3.00 MI \$0.50.
- OSRD 4703 PBA 6011 (1-470)
Newman, Melvin S., and others
The composition of DDT "by-product oils" from Hercules Powder Company, to November 15, 1945. 1945.
13p Ph \$1.00 MI \$0.50.
- OSRD 4704 PBL 13101 (1-824)
Eyring, Carl, F.
Recordings of jungle sounds. Feb. 1945.
70p illus. MI \$1.00 Ph \$5.00.
- OSRD 4707 PBL 28608 (2-391)
Miller, O. H., and Singleton, Robert
Summary description of existing mapping systems in the United States. May 1945.
48p MI \$1.00 Ph \$4.00.
- OSRD 4708 PBL 28606 (2-391)
Singleton, Robert
A procedure for determining the orientation of aerial photographs by pairs. Feb 1945.
28p MI \$1.00 Ph \$2.00.
- OSRD 4709 PBL 28695 (2-219)
Singleton, Robert
Fixed projection cameras for rectifying high oblique aerial photographs. Oct 1945.
65p diagrs, photos. MI \$2.00 Ph \$5.00.
- OSRD 4710 PBL 28609 (2-441)
Singleton, Robert, and Thralls, Marvin
An enlarging camera for use with a fixed rectifier. May 1945.
28p MI \$1.00 Ph \$2.00.
- OSRD 4711 PBL 28607 (2-441)
Klissam, Philip, and Singleton, Robert
A stereoscopic plotter for contouring in orthogonal projection from rectified aerial photographs. Apr 1945.
19p photos, diagrs. MI \$1.00 Ph \$2.00.
- OSRD 4714 PBL 28610 (2-391)
Singleton, Robert, and others
A system for mapping from high oblique aerial photographs. Jun 1945.
28p MI \$1.00 Ph \$2.00.
- OSRD 4715 PBA 5484 (1-1143)
Mason, C. W., and Delamater, G. B.
Microscopical properties of derivatives of fluorine agents, to February 10, 1945. Progress report. Feb 1945.
15p diagrs. MI \$0.50 Ph \$1.00.
- OSRD 4717 PBL 18484 (1-1024)
Cross, Howard C., and Simmons, Ward F.
Heat-resisting metals for gas turbine parts. (N-102). Progress report. Feb 1945.
175p illus.
MI \$2.00 Ph \$12.00.
- OSRD 4729 PBL 20219 (1-1489)
Duwez, P. E., and others
Behavior of metals under dynamic conditions (NS-109): Application of pure strain rate tests to an investigation of two 76 mm. gun Tubes. Progress report, Dec 15, 1944. Feb 1945.
30p photos, drawings, diagrs, tables.
MI \$0.50 Ph \$2.00.
- OSRD 4731 PBL 16733 (1-1012)
Duffin, R. J.
The step-writer. Feb 1945.
9p photos, diagrs. MI \$0.50 Ph \$1.00.
- OSRD 4732 See OSRD 3523.
- OSRD 4733 PBL 32218 (2-658)
Edwards, D. G., and others
The burning properties and anti-personnel effect of PMP. Progress report. Sep 15, 1944. Mar 1945.
12p photos, curves. MI \$1.00 Ph \$2.00.
- OSRD 4736 PBL 28533 (2-358)
Carnegie Institution of Washington. Mount Wilson Observatory
Report on reflex sights. Mar 1945.
29p diagrs, photos. MI \$1.00 Ph \$2.00.
- OSRD 4737 PBL 28538 (2-418)
Carnegie Institution of Washington. Mount Wilson Observatory
Instruments for studying pursuit curves. May 1945.
28p photos, diagr, drawing.
MI \$1.00 Ph \$2.00.
- OSRD 4738 PBL 28534 (2-358)
Carnegie Institution of Washington. Mount Wilson Observatory
Report on resolution of aerial cameras in the laboratory and in the air. Mar 1944.
58p curves, photos, tables.
MI \$2.00 Ph \$4.00.
- OSRD 4739 PBL 28535 (2-358)
Carnegie Institution of Washington. Mount Wilson Observatory
Final report on shutter development for aerial photography. I. Langer multiple-slit shutter. II Modification of 24" K-17 shutter. Mar 1945.
39p photos, drawings, curves.
MI \$1.00 Ph \$3.00.
- OSRD 4740 PBL 51033 (4-1067)
Harvard University, Optical Research Laboratory
Report on the optical research laboratory at Harvard. Dec 1945.
44p photos. MI \$1.00 Ph \$3.00.
- OSRD 4742 PBL 23599 (2-257)
Brillouin, Leon
Electronic theory of the cylindrical magnetron, static characteristics. Feb 1945.
50p curves. MI \$0.50 Ph \$4.00.
- OSRD 4743 PBL 50824 (4-486)
Gongwer, C. A.
The fluid gyroscope. Completion report. Feb 1945.
15p drawings, photos. MI \$1.00 Ph \$2.00.
- OSRD 4746 PBL 12182 (1-902)
Kelslar, Evan R.
The selectometer, a classification guide. Feb 1945.
57p illus. MI \$1.00 Ph \$4.00.
- OSRD 4750 PBL 12161 (1-903)
Keller, Fred, and Estes, Catherine W.
The relative effectiveness of four and seven hours of daily code practice. Feb. 1945.
12p MI \$0.50 Ph \$1.00.
- OSRD 4757 PBA 15604 (1-983)
Rodebush, W. H.
Statistical considerations in the use of DDT aerosols (Progress report) to January 1, 1945. Mar 1945.
20p graph, tab. MI \$0.50 Ph \$2.00.
- OSRD 4760 PBL 27335 (2-571)
Cawein, Madison
Special phototubes and circuit developments. Technical report, Jun 15, 1943-Dec 31, 1944. Jan 1945.
- | PB | OSRD | P | MI | Ph |
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| 27335 | 4760 | 26 | \$1.00 | \$2.00 |
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- OSRD 4762 PBA 24857 (2-395)
Tisaari, O. W.
Linings for fuel and lubricant containers. Final report. Jan 1945.
16p tables. MI \$0.50 Ph \$2.00.
- OSRD 4764 PBL 16485 (1-1188)
Tucker, C. W., and others
Residual stresses in cold-drawn nonferrous alloys (OD-25): an X-ray study, Part V. Final report, Nov 1, 1944-Feb 15, 1945. Mar 1945.
53p diagrs, graphs. MI \$1.00 Ph \$4.00.
- OSRD 4773 PBL 20220 (1-1500)
Duwez, P. E., and others
Behavior of metals under dynamic conditions (NS-109): The influence of pure strain rate on the tensile properties of three types of ship plate. Progress report, Dec 11, 1945. Feb 1945.
78p photos, drawings, tables, diagrs.
MI \$1.00 Ph \$6.00.
- OSRD 4774 PBL 20218 (1-1488)
Elmer, D. A., and others
Behavior of metals under dynamic conditions (NS-109): The design of a hydro-pneumatic machine for rapid load tensile testing. Progress report, Dec 23, 1944. Feb 1945.
27p drawings, diagrs, graphs.
MI \$0.50 Ph \$2.00.
- OSRD 4775 PBL 20217 (1-1577)
Duwez, P. E., and others
Behavior of metals under dynamic conditions (NS-109): The influence of hardness and type of heat treatment on the static and impact tensile properties of an SAE 4340 steel. Progress report, Dec 26, 1944. Feb 1945.
28p curves, photos, tables. MI \$0.50 Ph \$2.00.
- OSRD 4776 PBL 22317 (1-1494)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of armor plate from Japanese aircraft "Betty." Progress report 157, Jan 19, 1945. Mar 1945.
5p photos. MI \$0.50 Ph \$1.00.
- OSRD 4777 PBL 22318 (2-25)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of Japanese electrical cable. Progress report 156, Jan 24, 1945. Mar 1945.
12p photos, tables.
MI \$0.50 Ph \$1.00.

- OSRD 4780 PBL 9376 (1-706)
Erbuth, P., and Aston, J.G.
Methods of production and calibration of combination vapor pressure and gas dial thermometers, to January 26, 1945.
19p illus. MI \$1.50 Ph \$2.00.
- OSRD 4781 PBL 30754 (2-553)
Correy, Robert B., and Burket, Stanley C.
Equipment and procedure for the preparation of very small batches of rolled sheet powder. Progress report. Mar 1945.
34p MI \$1.00 Ph \$3.00.
- OSRD 4782 PBA 6012 (1-532)
Brown, Meldon G., and Boldebeck, Edith M.
Ultraviolet absorption studies on DDT, to March 1, 1945. 1945.
18p MI \$1.50 Ph \$2.00.
- OSRD 4784 PBL 5258 (1-347)
Hersberg, E. B., and others
E-19 incendiary bomb. 1945.
101p illus. Ph \$7.00 MI \$1.50.
- OSRD 4784a PBL 12095 (1-796)
Hersberg, E. B.
Supplementary Report on design and development of E-19 incendiary bomb. (For Main Report see PB 5258.) Jun 1945.
14p illus. MI \$1.50 Ph \$1.00.
- OSRD 4786 PBL 20181 (1-1020)
Hoyt, S.L., and others
Flash welding of alloy steels for ordnance (00-86): Part II, Translation of "Production technique and quality of flash-welded joints," by Hans Kilger. Final report, Dec 31, 1944. 1944.
180p photos, tables, graphs. MI \$2.00 Ph \$10.00.
- OSRD 4787 PBL 51032 (4-973)
Klassen, Philip
The harmonization of aircraft remote fire control system. Oct 1945.
132p photos, diagrs, drawings, graphs. MI \$3.00 Ph \$9.00.
- OSRD 4790 PBL 27552 (2-109)
Columbia University. Airborne Instruments Laboratory
A study of short-term fluctuations in the magnetic field of the earth, project NA-120. Feb 1945.
20p photos, graphs, diagr. MI \$1.00 Ph \$2.00.
- OSRD 4792 PBL 8605 (1-760)
MacKendrick, J. N., and others
Mechanical oxygen generating units and related equipment. 1945.
701p illus. MI \$7.50 Ph \$47.00.
- OSRD 4793 PBL 20223 (2-37)
Griffis, LeVan, and Morikawa, George H.K.
Behavior of steel under conditions of multi-axial stress and the effect on this behavior of metallographic structure and chemical composition (NS-307): Progress report, Jan 15, 1944 to Oct 15, 1944. Feb 1945.
51p photos, drawings. MI \$1.00 Ph \$4.00.
- OSRD 4795 PBL 15215 (1-1443)
Abrams, M. N., and others
A project for standardizing submarine phraseology and developing a training program in submarine voice communications. Final report Apr-Dec 1944. Feb 1945.
30p graphs, photos. MI \$1.50 Ph \$2.00.
- OSRD 4796 PBA 15618 (1-983)
LaMer, Victor K., and others
Toxicity to *Drosophila* (fruit flies) of aerosols of DDT of uniform droplet size in oil of high boiling point: (Progress report) to October 31, 1944. Mar 1945.
16p graphs, tabs. MI \$1.50 Ph \$2.00.
- OSRD 4797 PBL 4643 (1-307)
Thompson, Norman J., and Kling, Alan L.
The effect of moisture on ignition and burning characteristics of Douglas fir. 1945.
15p Ph \$1.00 MI \$1.50.
- OSRD 4798 PBA 5913 (1-347)
Brookman, J., and Lee, T.
The estimation of chloride by measuring the E.M.F. of a silver, silver chloride, chloride ion half cell for the purpose of estimating H or other toxics. 1945.
48p illus. Ph \$4.00 MI \$1.50.
- OSRD 4800 PBL 23726 (2-544)
Princeton University. Statistical Research Group
The statistical sign test. Feb 1945.
22p tables. MI \$1.50 Ph \$2.00.
- OSRD 4806 PBA 40551 (3-551)
Reuszer, Herbert W.
Studies on the role of bacteria in the deterioration of cotton duck under tropical conditions. Apr 1945.
41p tables. MI \$1.00 Ph \$3.00.
See also PB 11966.
- OSRD 4807 PBA 11966 (1-987)
Barghoorn, Elso S.
Studies on the deterioration of textiles under tropical conditions in the Canal Zone. Apr 1945.
93p illus. MI \$1.00 Ph \$7.00.
- OSRD 4811 PBL 18335 (1-1270)
Lindley, Donald B., and others
Experiments in training radar operators in visual code reception. Mar 1945.
19p tables. MI \$1.50 Ph \$2.00.
- OSRD 4812 PBL 22319 (1-1573)
Anthony, M. L.
Examination of enemy material: Metallurgical examination of captured Japanese aluminum pressure vessels used for the storage of oxygen. Progress report 153, Jan 18, 1945. Mar 1945.
21p photos, tables. MI \$1.50 Ph \$2.00.
- OSRD 4814 PBL 32198 (2-826)
Kirkwood, John G., and Brinkley, Stuart R., Jr.
Theory of the propagation of shock waves from explosive sources in air and water. Progress report. Mar 1945.
39p curves, tables. MI \$1.00 Ph \$3.00.
- OSRD 4819 PBL 19835 (1-1523)
Lewis, Dantrey, and others
Corrosion-fatigue failure of aircraft control cables (N-101): Final report, May 1, 1942-Dec 31, 1944. Feb 1945.
49p photos, curves, tables. MI \$1.50 Ph \$4.00.
See PBs 19812, 19813, 19815, 19821, 19822, 19831, 19832.
- OSRD 4820 PBA 30755 (2-627)
Harbottle, Garman, and Moyes, Richard M.
An improved volumetric bromination procedure for the determination of centralite in smoking powder. Progress report. Mar 1945.
16p MI \$1.00 Ph \$2.00.
- OSRD 4823 PBL 12071 (1-1010)
Ladenburg, Rudolf
Three instruments for measuring muzzle flash intensity. Final report. Feb 1945.
8p MI \$1.50 Ph \$1.00.
- OSRD 4824 PBL 19542 (1-1501)
Hunter, M. A., and others
Physical and stress corrosion properties of magnesium alloy sheet (NA-147): Progress report, Jan 15, 1945. Mar 1945.
78p MI \$1.00 Ph \$6.00.
- OSRD 4825 PBL 31211 (2-653)
Mattaon, R. L., and Almen, J. G.
Effect of shot blasting on the mechanical properties of steel (NA-115) (00-177): Part II. Final report, Oct 1, 1943-Sep 30, 1944. Mar 1945.
134p photos, tables, graphs. MI \$3.00 Ph \$9.00.
For Part I of final report see PB 19515.
- OSRD 4826 PBL 22320 (1-1582)
Grenell, L.H., and others
Examination of enemy material (00-113; AC-77; N-119). Metallurgical examination of two Japanese Kasai engines, models II and 15. Progress report 155, Jan 24, 1945. Mar 1945.
59p photos, tables. MI \$1.00 Ph \$4.00.
- OSRD 4827 PBL 22321 (1-1561)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of a Japanese model 92 machine gun. Progress report 152, Jan 12, 1945. Mar 1945.
17p MI \$1.50 Ph \$2.00.
- OSRD 4831 PBL 18336 (1-1271)
Lindley, Donald S., and others
Use of the PPI flash-reading trainer in training navy search-radar operators. Mar 1945.
12p diagr, photos. MI \$1.50 Ph \$1.00.
- OSRD 4832 PBL 19557 (1-1347)
Gonsamer, M., and others
Plastic flow of aluminum aircraft sheet under combined loads (NA-149) (NA-150): Part III—Effect of aging at room temperature on the properties of 75S in the circular hydraulic bulge test. Final report, Dec 15, 1944. Mar 1945.
21p curves. MI \$1.50 Ph \$2.00.
- OSRD 4833 PBL 16468 (1-1247)
Butts, Allison, and Reiber, Paul L., Jr.
Investigation of the effects of impurities on the ferro-magnetism of non-ferrous alloys (00-156): Progress report, Oct. 15, 1944-Jan 15, 1945. Mar 1945.
62p tables, photos, graphs. MI \$1.00 Ph \$5.00.
- OSRD 4834 PBA 5880 (1-476)
Bergmann, Max, and others
Progress report on "The chemistry of sulfonium salts related to H₂S" to December 27, 1944. 1945.
49p MI \$1.50 Ph \$4.00.

- OSRD 4835 PBA 5485 (1-352)
Fuson, R.C., and others
An investigation of the structure of the lower polysulfides. 1945.
42p illus. Ph \$3.00 MI \$5.00.
- OSRD 4836 PBA 5911 (1-471)
Price, Charles C., and Wiese, Alvin C.
The quantitative analysis for CX in water by the DB3 procedure. 1945.
7p illus. Ph \$1.00 MI \$5.00.
- OSRD 4837 PBA 5490 (1-347)
Hason, C.W., and Delamater, G.B.
Micro reactions for the identification of fluorophosphates, to 27 February 1945.
15p illus. Ph \$1.00 MI \$5.00.
- OSRD 4839 PBL 5467 (1-456)
Thomas, Lloyd B., and others
A continuous recording meter for determining concentration of H. 1945.
50p illus. Ph \$4.00 MI \$5.00.
- OSRD 4840 PBM 5900 (1-471)
Price, Charles C., and others
An evaluation of the use of adsorbents in analysis for antimalarial drugs, to February 28, 1945. 1945.
16p Ph \$2.00 MI \$5.00.
- OSRD 4841 PBA 5483 (1-352)
Du Vigneaud, Vincent, and others
Biochemistry of the action of the sulfur-containing vesicants. 1945.
114p illus. Ph \$8.00 MI \$15.00.
- OSRD 4843 PBA 5863 (1-532)
Drake, Nathan L.
The detection of organic fluorine toxics. The use of thiocarbonyls as arsenical detectors. 1945.
106p Ph \$8.00 MI \$15.00.
- OSRD 4844 PBL 8603 (1-603)
Aston, J.G., and Geissman, T.A.
The removal of traces of acetylene and other hydrocarbons from air. 1945.
65p MI \$1.00 Ph \$5.00.
- OSRD 4845 PBL 9378 (1-760)
Geissman, T.A.
Preparation of intermediates for oxygen-carrying chelate complexes, to March 1, 1945. Apr 1945.
186p MI \$2.00 Ph \$13.00.
- OSRD 4847 PBL 5500 (1-473)
Bakelite Corporation
The value of electrical resistance in studying the protective behavior of organic coatings on mild steel immersed in sea water. 1945.
37p Ph \$3.00 MI \$5.00.
- OSRD 4852 PBM 5491 (1-495)
Hogeboom, George H., and others
I. The necrotizing action of certain substances related to mustard gas, H, or to the nitrogen mustard. II. A comparison of the vesicant action exerted on human skin by mustard gas, H, and by mixtures of H with wetting agents or solvents, to March 1, 1945. 1945.
29p illus.
Ph \$2.00 MI \$5.00.
- OSRD 4853 PBM 5492 (1-366)
McMaster, Philip D., and others
The development of methods for testing the abilities of agents to combat the effects of mustard gas, H, and other vesicants upon the skin, to February, 1945. 1945.
43p Ph \$3.00 MI \$5.00.
- OSRD 4854 PBM 5493 (1-366)
McMaster, Philip D., and others
A search for decontaminating and treatment agents for skin exposed to mustard gas, H, to March, 1945. 1945.
60p Ph \$4.00 MI \$1.00.
- OSRD 4855 PBM 5882 (1-427)
Bergmann, Max, and others
The penetration of vesicant vapors into human skin. 1945.
41p illus. Ph \$3.00 MI \$5.00.
- OSRD 4856 PBL 27423 (2-436)
Beth, Richard A.
Concrete penetration. Mar 1945.
60p curves, tables. MI \$2.00 Ph \$4.00.
- OSRD 4861 PBL 18327 (1-1268)
Beier, D. C., and others
The selection of fire controlmen (O) rangefinder and radar operators. (Applied Psychology Panel: Selection and training of rangefinder and radar operators. Rept 19.) Mar 1945.
45p graphs, tables. MI \$5.00 Ph \$3.00.
See also PB 18323.
- OSRD 4862 PBL 6554 (1-755)
Comstock and Wescott, Inc.
The Cox marine electrocoating process. Mar 1945.
18p MI \$5.00 Ph \$2.00.
- OSRD 4866 PBL 20222 (1-1408)
Howe, E. D., and others
History of residual stresses in welded ships (MS-305). Final report. Part I. Ship hulls of Liberty and oil tanker types. Part II. Hogging and sagging tests of oil tankers. Part III. Tests of two Liberty ships at sea. Part IV. Hogging and sagging test of an oil tanker and stress measurements on Type C-4 troopships. Part V. The use of X-rays for stress measurement on board ship. Part VI. Heated panel welding test, S. S. Gaspar de Portola. Part VII. History of deck stresses during the construction of Victory ships. Part VIII. Temperature studies of Liberty, Victory and refrigerated cargo ships. Mar 1945-Feb 1946.

PB	OSRD	Part	MI	Ph
20222	4866	I	\$ 5.00	\$3.00
19943	5262	II	1.00	4.00
19942	6359	III	1.50	8.00
19939	6587	IV	1.00	4.00
19941	6388	V	.50	3.00
19947	6588	VI	1.00	4.00
19945	6589	VII	1.00	6.00
19946	6590	VIII	1.00	5.00
- OSRD 4867 PBL 61376 (4-1056)
DeGarmo E. Paul, and Meriam, J. L.
Residual stresses in ship welding (MS-304)—Final report. Mar 1945.
84p photos, drawings, graphs.
MI \$2.00 Ph \$6.00.
See also PBs 33209, 33210, and 33211.
- OSRD 4868 PBL 20215 (1-1498)
Clark, D. S.
Behavior of metals under dynamic conditions (MS-109): Final report. Feb 15, 1945. Mar 1945.
22p MI \$5.00 Ph \$2.00.
- OSRD 4869 PBL 34757 (2-979)
Kouwenhoven, W. B.
Development of methods for determining the proper seating of gliding-metal rotating bands on 105 mm. shells in production. Progress report. Mar 1945.
77p graphs. MI \$2.00 Ph \$6.00.
See PBs 11215 and 11216.
- OSRD 4870 PBL 13293 (1-981)
Satter, G. A.
An evaluation of the personal inventory for predicting success in parachute school. Mar 1945.
20p tables. MI \$5.00 Ph \$2.00.
- OSRD 4879 See OSRD 3523.
- OSRD 4880 PBA 5498 (1-828)
Woodhouse, J. C., and others
Pilot plant for arsenic trichloride using hydrogen chloride process. Apr 1945.
86p illus. MI \$1.00 Ph \$6.00.
- OSRD 4881 PBL 30765 (2-556)
Lingane, James J.
Polarographic analysis of primers. Final report. Mar 1945.
14p graph, photo. MI \$1.00 Ph \$1.00.
See also PB 30752.
- OSRD 4883 PBL 34749 (3-85)
Almy, G. M., and Adams, G. D.
Three to twenty million volt radiography: The application of the betatron to practical radiography. May 1945.
36p photos, diags, graphs.
MI \$1.00 Ph \$3.00.
- OSRD 4888 PBM 5494 (1-431)
Salzberg, P. L., and others
Protective and therapeutic agents for war gases-solution of BAL, to January 1, 1945. 1945.
92p illus. Ph \$7.00 MI \$1.00.
- OSRD 4891 PBL 31040 (2-608)
Rouse, Hunter, and others
Cavitation tests on a systematic series of torpedo heads. Feb. 22-May 31, 1945.
Graphs.

PB	OSRD	Pages	Micro.	Photo.
31040	4891	14	\$1.00	\$1.00
31045	5059	10	1.00	1.00
31043	5056	10	1.00	1.00
31044	5057	12	1.00	1.00
31042	5055	9	1.00	1.00
31041	5054	9	1.00	1.00
31046	5253	13	1.00	1.00
- OSRD 4894 PBL 15619 (1-1061)
La Mer, Victor K., and others
Conversion of Besler #374 screening-smoke generator to a Hochberg-La Mer aerosol generator for insecticidal purposes, with supplement on Conversion of Besler M-2 generator, to April 2, 1945. Apr 1945.
36p diags, tables. MI \$5.00 Ph \$3.00.

- OSRD 4895 PBA 15641 (1-1052)
Pease, Robert M.
Gel-type hopcalite and some granular reagents for carbon monoxide. Progress rept. to December 31, 1944. Apr 1945.
26p tabs. MI \$1.50 Ph \$2.00.
- OSRD 4896 PBL 15624 (1-1294)
Pease, Robert, and Dranyo, Charles
Results of canister tests against carbon monoxide to December 31, 1944. Apr 1945.
9p tables. MI \$1.50 Ph \$1.00.
- OSRD 4897 PBA 15622 (1-986)
Pease, Robert M., and McLean, John M.
Further investigations of drying agents. (Progress report) to December 31, 1944. Apr 1945.
16p tabs. MI \$1.50 Ph \$2.00.
- OSRD 4898 PBA 15623 (1-986)
Pease, Robert M.
Protection against carbon monoxide. (Progress report) to December 31, 1944. Apr 1945.
9p MI \$1.50 Ph \$1.00.
- OSRD 4899 PBL 18874 (1-1509)
Malvern, R. R.
The effect of air burst on the blast from bombs and small charges: II. Analysis of experimental results. Apr 1945.
62p curves, photos, tables. MI \$1.00 Ph \$5.00.
- OSRD 4900 PBL 16740 (1-1322)
Hess, M. F., and others
Evaluation of factors affecting crack sensitivity of welded joints: Part II. Measurement of stresses at the threshold of cracking of first pass weld metal: Final report. Apr 1945.
40p tables, diagrs, photos. MI \$1.50 Ph \$3.00.
- OSRD 4901 PBL 15617 (1-1106)
LaMer, Victor K., and Hochberg, Seymore
The Hochberg-LaMer aerosol generator, to Oct 31, 1944. Apr 1945.
29p diagrs, graphs. MI \$1.50 Ph \$2.00.
- OSRD 4904 PBA 32208 (2-857)
LaMer, Victor K., and others
The optical characterization of any aerosol in the laboratory or field. The production of aerosols from powdered solid materials. Final report. Apr 1945.
38p graphs. MI \$1.00 Ph \$3.00.
- OSRD 4905 PBL 34765 (2-904)
Roeser, J. Barkley, and others
Tables of functions related to the Fresnel integrals. Mar 1945.
35p tables. MI \$1.00 Ph \$3.00.
- OSRD 4911 PBL 12157 (1-902)
Keller, Fred S.
Memorandum on the code-voice method of teaching International Morse code. Apr 1945.
10p MI \$1.50 Ph \$1.00.
- OSRD 4913 PBL 22322 (1-1580)
Bartholomew, E. L. Jr., and others
Examination of enemy material: Metallurgical investigation of German 75 mm. gun tubes. Progress report 105, Feb 28, 1945. Apr 1945.
48p drawings, graphs, tables, photos. MI \$1.50 Ph \$4.00.
- OSRD 4914 PBL 22323 (1-1484)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of armor plate from Japanese aircraft "Lily 2." Progress report 160, Feb 28, 1945. Apr 1945.
7p photos, tables. MI \$1.50 Ph \$1.00.
- OSRD 4915 PBL 22324 (1-1571)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of German MP-43/1 7.92 mm. machine pistol. Progress report 162, Mar 3, 1945. Apr 1945.
9p photos, tables. MI \$1.50 Ph \$1.00.
- OSRD 4916 PBL 22325 (1-1581)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of German tank track links and pins. Progress report 163, Feb 26, 1945. Apr 1945.
9p tables, photos. MI \$1.50 Ph \$1.00.
- OSRD 4917 PBL 22327 (1-1532)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of Japanese 30 mm. M.E. incendiary and M.E. tracer ammunition. Progress report 164, Mar 14, 1945. Apr 1945.
7p photos, tables. MI \$1.50 Ph \$1.00.
- OSRD 4921 PBL 19651 (1-1359)
Shiffman, Max, and Spencer, Donald C.
The force of impact on a sphere striking a water surface. Approximation by the flow about a lens. Feb 1945.
56p diagrs, graphs. MI \$1.00 Ph \$4.00.
- OSRD 4925 PBL 34123 (3-46)
U. S. National Defense Research Committee
Studies of the design of opaque reticles for stereoscopic range and height finders. Mar 1945.
20p drawings, tables. MI \$5.00 Ph \$14.00.
- OSRD 4926 PBL 6555 (1-412)
Brown University, Applied Mathematics Group.
An electrical analogue to the spring hammer box. 1945.
54p Ph \$4.00 MI \$1.00.
- OSRD 4931 PBL 12058 (1-781)
Hartley, Eugene L., Jones, Dorothea B.
Final summary of research on the use of battle noise equipment. Apr 1945.
21p MI \$1.50 Ph \$2.00.
- OSRD 4933 PBL 27352 (2-573)
Hippel, Arthur von
Research on telluric sulfide photoconductive cells. Apr 1945.
113p diagrs, graphs, tables, drawings. MI \$3.00 Ph \$8.00.
- OSRD 4937 PBL 34758 (3-171)
Helm, H. J., and Webb, R. C.
Design, construction and operation of four unit cathode ray oscillograph. Jun 1945.
124p diagrs, photos. MI \$3.00 Ph \$9.00.
- OSRD 4938 See OSRD 4086.
- OSRD 4940 PBL 19575 (1-1411)
Sachs, George, and others
Correlation of information available on the fabrication of aluminum alloys (AA-125): Final report. Section V, Formability of aluminum alloys for use in military aircraft: Part IV, Fundamentals of pure bending of an ideal plastic metal under conditions of plane stress. Apr 1945.
36p graphs. MI \$1.50 Ph \$3.00.
- OSRD 4955 PBL 19828 (1-1578)
Hess, M. F., and others
Spot-welding of magnesium alloys: Part I - The surface treatment of magnesium alloy sheet for spot-welding. Final report, Aug 1944. Apr 1945.
101p curves, tables. MI \$1.50 Ph \$7.00.
- OSRD 4956 PBL 19827 (2-37)
Hess, M. F., and others
Spot-welding of magnesium alloys: Part II - Spot welding characteristics of chemically cleaned magnesium alloy sheet. Final report, Aug 1944. Apr 1945.
122p curves. MI \$1.50 Ph \$9.00.
- OSRD 4957 PBL 5221 (1-1389)
Herzog, Gerhard
Measurements on propeller blades. Dec 1944.
36p photos, drawings. MI \$1.50 Ph \$3.00.
- OSRD 4963 PBA 50864 (5-475)
Penner, S., and Sherman, S.
Diffusion of nitroglycerin in wrapped powder grains. Weekly progress report, Supp. 11, Jun 5, 1945. n.d.
35p MI \$1.00 Ph \$3.00.
- OSRD 4964 PBL 50863 (4-387)
Golden, S., and Lathrop, C.
Apparatus for the recording of pressure vs. Pdt. Weekly progress report, Supp. 12, Jun 5, 1945. 1945.
28p diagrs, photos. MI \$1.00 Ph \$2.00.
- OSRD 4969 PBL 33360 (2-748)
McLeod, John H.
Light weight optical mirrors using foamglas. Final report. Apr 1945.
8p MI \$1.00 Ph \$1.00.
- OSRD 4973 PBL 4443 (1-467)
Weeley, S. M., and others
Training manual for the Wellin gravity device. 1945.
30p illus. Ph \$2.00 MI \$1.50.
- OSRD 4980 PBL 4195 (1-439)
Moore, T. V., and Camp, T. R.
Development of mechanized flame thrower, El-3R1-13R2 in M4A1 tank. 1945.
127p illus. Ph \$9.00. MI \$1.50.
- OSRD 4981 PBL 4206 (1-389)
Agoston, G. A., and Klemm, W. A.
Factors governing the performance of flame throwers. 1945.
90p illus. Ph \$6.00 MI \$1.00.
- OSRD 4982 PBL 22326 (1-1591)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of Japanese Sakae-12 engine No. 124676. Progress report 158, Feb 12, 1945. Apr 1945.
56p photos, tables. MI \$1.00 Ph \$4.00.
- OSRD 4983 PBL 4625 (1-435)
Dawson, R. D., and others
Mechanized flame thrower Model 1-3. 1945.
4p blueprints. Ph \$4.00 MI \$1.00.

- OSRD 4984 PBM 5873 (1-496)
Cori, Carl F., and others
Effects of methyl fluoroacetate on isolated tissues and enzyme systems, to March 20, 1945. 1945.
32p Ph \$3.00 MI \$5.00.
- OSRD 4986 PBL 63636 (5-694)
U. S. National Bureau of Standards and Carnegie Institution of Washington, Geophysical Laboratory
Firings in 3-inch gun at David M. Taylor Model Basin, Oct 1943 to May 1944. Second report. May 1945.
22p photos, diags, graphs, tables. MI \$5.00 Ph \$15.00.
- OSRD 4988 PBL 32226 (2-648)
Stanbury, George R., and others
Studies in wood moisture content: Part A. Moisture content of wood in houses in Key West, Florida, Dec 1944-Feb 1945, by George R. Stanbury and Raymond H. Ewell; Part B. Laboratory studies of equilibrium moisture content of wood, by Richard F. Messing. Apr 1945.
45p photos, tables, graphs. MI \$1.00 Ph \$3.00.
- OSRD 4989 PBA 5879 (1-480)
Price, Charles C., and Bullitt, Orville H., Jr.
The concentration of the odorous principle of water-washed Levinstein mustard. The preparation of 2-chloroethyl sulfonyl chloride, to February 28, 1945. 1945.
15p Ph \$1.00 MI \$5.00.
- OSRD 4995 PBL 20210 (1-1575)
Berry, J. M., and others
Investigation of boron in armor plate (OD-87): Endurance and other properties of some boron-containing carbon steels and ME 9400 type steels. Final report, Feb 15, 1945. Apr 1945.
34p curves, diags, tables. MI \$5.00 Ph \$3.00.
- OSRD 4996 PBL 23778 (2-342)
Stibitz, George R.
Relay computers. Feb 1945.
86p MI \$1.00 Ph \$6.00.
- OSRD 4997 PBL 34756 (3-102)
Fleming, J. A., and McNish, A. G.
Final report on contract NDCrc-187 and supplements. Apr 1945. May 1945.
12p MI \$1.00 Ph \$1.00.
- OSRD 5002 PBM 5902 (1-407)
Rotariu, George J., and others
The toxicity and pathology of phosgene oxide (dichloroformoxime), to March 31, 1945. 1945.
7p Ph \$1.00 MI \$5.00.
- OSRD 5003 PBA 5872 (1-481)
Shriner, R. L., and others
N-alkyl carbamates of 4-substituted-3, 5-dimethylphenols, to June 1, 1944. 1945.
28p Ph \$2.00 MI \$5.00.
- OSRD 5004 PBL 19802 (2-29)
Stewart, J. R.
Selective gas analyzers. May 1945.
30 p charts, diags, drawings. MI \$5.00 Ph \$2.00.
- OSRD 5005 PBL 22328 (1-1581)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of a Japanese model 89 7.7 mm. aircraft machine gun. Progress report 161, Mar 16, 1945. Apr 1945.
15p MI \$5.00 Ph \$1.00.
- OSRD 5010 PBL 16449 (1-1200)
Pittsburgh University
Tropical testing. Mar 1945.
17p tables. MI \$5.00 Ph \$2.00.
- OSRD 5012 PBL 34755 (3-201)
Schilling, Harold K.
Ultrasonic signalling. Mar 1945.
285p charts, drawings, graphs, photos. MI \$6.00 Ph \$19.00.
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Sachs, George, and others
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60p tables, photos. MI \$1.00 Ph \$4.00.
- OSRD 5016 PBL 13100 (1-968)
Wright, W. F., and others
True air-mileage devices. Apr 1945.
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- OSRD 5018 PBL 16746 (1-1112)
Mehl, Robert F., and Grobe, Arthur H.
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132p photos, tabs, graphs. MI \$1.50 Ph \$9.00.
- OSRD 5019 PBL 16741 (1-1027)
Schaefer, Raymond N., and others
Experimental production of pilot static and centrifugal castings for the Armed Services: Part I, Centrifugally cast composite grinding rolls. Final report. May 1945.
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- OSRD 5020 PBL 22329 (1-1590)
Heussner, C. E., and others
Examination of enemy material: Metallurgical examination of landing wheel and strut, wing sections, and components from Japanese aircraft "Frances." Progress report 165, Mar 15, 1945. May 1945.
36p photos, tables. MI \$5.00 Ph \$3.00.
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Heussner, C. E., and others
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11p tables, photos. MI \$5.00 Ph \$1.00.
- OSRD 5023 PBL 4639 (1-442)
Thompson, Norman J., and Dakin, Morrill
Comparative incendiary effectiveness of the E-19 and M-50 incendiary bombs. 1945.
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McMaster, Philip D., and Hogeboom, George H.
Changes in the circulation and in the permeability of vessels within and about mustard gas and Lewisite lesions of rabbit skin, to April, 1945. 1945.
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High-speed compression testing of copper crusher cylinders and spheres, II. Final report. 1945.
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Heat-resisting metals for gas turbine parts (M-102): chromium-base alloys. Progress report, Feb. 26, 1945. May 1945.
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18p charts, photos. MI \$5.00 Ph \$2.00.
- OSRD 5051 PBL 27553 (2-108)
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Magnetometer suspensions. May 1945.
28p drawings, graphs, tables. MI \$1.00 Ph \$2.00.
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Mehl, R. F., and others
Improvement in gun steel ingot practice (OD-34-3): Classification of bore defects in seamless gun tubes. Progress report, Mar 20, 1944. Mar 1944.
21p charts. MI \$5.00 Ph \$2.00.
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Redfield, Alfred C.
Interaction of antifouling paints and steel. 1945.
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- OSRD 5060 PBL 20216 (1-1503)
Rosenthal, Daniel, and others
History of residual stresses in welded ships (MS-305): The use of X-rays for the determination of stresses in ship plates. Progress report. May 1945.
36p photos, diags, graphs, drawings. MI \$5.00 Ph \$3.00.

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Banta, H. M., and others
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57p tables, maps, photomicrographs
MI \$1.00 Ph \$4.00.
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- OSRD 5064 PBL 16419 (1-1013)
Grinstead, C. E.
Summary report on the design and development of the inductor compass. May 1945.
56p photos, diagrs, maps. MI \$1.00 Ph \$4.00.
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Almy, G. M., and Adams, G. D.
Three to twenty million volt radiography. Final report. Jun 1945.
91p photos, drawings, diagrs, charts.
MI \$2.00 Ph \$7.00.
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Thurax, A. L.
Underwater sonic loudspeaker. Progress report, Apr 24, 1945.
10p photos, diagrs, tables. MI \$1.00 Ph \$1.00.
- OSRD 5075 PBA 5894 (1-348)
Swift, E. H., and Nlemann, Carl
Appendices to "A system for the ultimate analysis of chemical warfare agents," to May 4, 1945. 1945.
55p illus. MI \$1.00 Ph \$4.00.
- OSRD 5077 PBA 5895 (1-478)
Gould, C. M., and others
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80p illus. Ph \$6.00 MI \$1.00.
- OSRD 5076 PBA 5896 (1-532)
Bennett, Edward, and others
Qualitative tests for certain acidic elements in organic compounds, to May 4, 1945.
37p illus. Ph \$3.00 MI \$5.00.
- OSRD 5090 PBL 4442 (1-465)
Conner, B. J., and others
APA engineering course curriculum—units for balance of crew training. 1945.
15p Ph \$1.00 MI \$5.00.
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Greenberg, H. J.
Gun equilibrators II. 1945.
51p illus. Ph \$4.00 MI \$1.00.
- OSRD 5099 PBL 27353 (2-573)
Hawlett, C. M., and others
Thallous sulfide photoconductive cell. Final report Feb 1945.
105p photos, graphs, tables, diagrs, drawings. MI \$4.00 Ph \$11.00.
- OSRD 5101 PBL 15858 (1-1263)
Rieppel, P. J., and others
Development of improved electrode coatings (OD-36-2). Progress report, Jul 15, 1944 to Jan 15, 1945. May 1945.
108p diagrs, photos. MI \$1.50 Ph \$8.00.
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30p drawings, photos, tables. MI \$5.00 Ph \$2.00.
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Hendricks, Paul S.
Conversion unit comparisons. Final report, Jan 1, 1944-Mar 15, 1945. Mar 1945.
80p photos, drawings. MI \$2.00 Ph \$6.00.
- OSRD 5107 PBL 22334 (1-1522)
Hausner, C. E., and others
Examination of enemy material: Metallurgical examination of Japanese aircraft "Irving" airframe. Progress report 171, Apr 12, 1945. May 1945.
10p photos, tables. MI \$5.00 Ph \$1.00.
- OSRD 5108 PBL 22335 (1-1572)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of armor plate from Japanese aircraft "Frank." Progress report 174, Apr 24, 1945. May 1945.
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- OSRD 5109 PBL 22336 (1-1525)
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Examination of enemy material: Metallurgical examination of a Japanese Kinsel-43 aircraft engine. Progress report 170, Apr 14, 1945. May 1945.
48p photos, tables. MI \$5.00 Ph \$4.00.
- OSRD 5110 PBL 22391 (1-1565)
Bartholomew, E. L., Jr., and others
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43p curves, drawings, photos. MI \$5.00 Ph \$3.00.
- OSRD 5118 PBL 19825 (1-1580)
Zickrick, Lyall
Bi-metallic copper-steel driving bands for projectiles (NO-159): Part III. Final report, Sep 15, 1944. May 1945.
5p MI \$5.00 Ph \$1.00.
- OSRD 5120 PBL 32225 (2-559)
Keevil, Charles S., and Stanbury, G. R.
Incendiary tests in experimental Japanese room. Progress report. May 1945.
29p photos, drawings, graphs. MI \$1.00 Ph \$2.00.
- OSRD 5121 PBL 4441 (1-469)
Organist, M. E., Jr., and others
Instructor's manual for stage II Auxiliary ships ABN divisions combined. 1944.
19p Ph \$1.00 MI \$5.00.
- OSRD 5122 PBL 22849 (1-1802)
Shaw, M. A.
Development of ear wardens type V-51R. Jul 1945.
72p photos, graphs, drawings. MI \$1.00 Ph \$5.00.
- OSRD 5123 PBL 22850 (2-153)
Forbes, T. M., and others
Flying by auditory reference ("Flybar"). Jun 1945.
91p photos, diagrs, graphs. MI \$1.00 Ph \$7.00.
- OSRD 5125 PBL 4222 (1-323)
Standard Oil Development Co.
Flame thrower, mechanized, E7-7, in light tank, M5A1. 1945.
112p illus. Ph \$8.00 MI \$1.50.
- OSRD 5126 PBL 4221 (1-322)
Standard Oil Development Co.
Flame thrower, mechanized, E12-7R1 installed in medium tank M4A1. 1945.
160p illus. Ph \$11.00 MI \$2.00.
- OSRD 5127 PBL 4225 (1-322)
Standard Oil Development Company
Service unit, mechanized flame thrower, E8 for use with flame thrower, mechanized, E12-7R1. 1945.
185p illus. MI \$2.00 Ph \$13.00.
- OSRD 5129 PBL 20836 (3-37)
Jones and Lamson Machine Co., Springfield, VT.
Thread gage development. Final report. n.d.
84p drawings, photos. MI \$1.00 Ph \$5.00.
See also PB 20829 and PB 20258.
- OSRD 5133 PBL 22392 (1-1572)
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11p tables. MI \$5.00 Ph \$1.00.
- OSRD 5134 PBL 22393 (1-1568)
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33p photos, tables. MI \$5.00 Ph \$3.00.
- OSRD 5135 PBL 22395 (1-1575)
Grenell, L. H., and others
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6p photo, table. MI \$5.00 Ph \$1.00.
- OSRD 5136 PBL 22394 (1-1561)
Grenell, L. H., and others
Examination of enemy material (OD-113; AC-77; N-119): Metallurgical examination of a German 75 mm. Kw. K 42 AP-HE-C & BC projectile and cartridge case. Progress report 175, Apr 14, 1945. May 1945.
13p drawings, photos. MI \$5.00 Ph \$1.00.
- OSRD 5137 PBL 33255 (2-592)
Brinkley, Stuart R., Jr., and Kirkwood, John G.
Tables and graphs of the theoretical peak pressures, energies, and positive impulses of blast waves in air. May 1945.
45p tables, graphs. MI \$1.00 Ph \$3.00.
- OSRD 5140 PBL 15813 (1-918)
Ruch, Floyd L.
Selection and training of cargo handling teams for combat laden vessels: Report No. 1. Final report in summary of work on the selection and training of cargo handling teams for combat laden vessels. May 1945.
15p MI \$5.00 Ph \$1.00.

- OSRD 5141 PBA 19789 (1-1408)
Lukons, Hiram S.
Flatware for army use (DMC-21): Final report Part I, from Jan 25, 1944 to Jan 26, 1945. May 1945.
18p MI \$1.50 Ph \$2.00.
- OSRD 5143 PBL 28528 (2-589)
Evans, C. D.
Development of armor welding electrodes (00-36-2): Effect of time and temperature of aging treatments on the physical properties of HRC-2A weld metal. Advisory report. Jun 1945.
19p curves, drawings, photos. MI \$1.00 Ph \$2.00.
- OSRD 5145 PBL 13307 (1-824)
Peterson, D. A.
Classification data available to ships' officers. May 1946.
10p MI \$1.50 Ph \$1.00.
- OSRD 5146 PBM 5864 (1-495)
Cohen, Barnett, and others
Final report under Contract ODMR-532 (and summarization of NDRC work, John Hopkins University, School of Medicine). 1945.
22p MI \$1.50 Ph \$2.00.
- OSRD 5147 PBA 5862 (1-479)
Herriot, Roger M., and Northrop, John H.
Volatile impurities of Levinstein K. 1945.
17p Ph \$2.00
MI \$1.50.
- OSRD 5150 PBL 8343 (1-606)
Matthew, C. J.
Development of test unit for production of oxygen by a regenerative chemical, to March 30, 1945. 1945.
23p MI \$1.50 Ph \$2.00.
- OSRD 5151 PBL 8341 (1-751)
Wheeler, T. L., and McMahon, H. O.
Instrument for measuring water-vapor content in aviator's oxygen: Final report to April 11, 1945. 1945.
30p MI \$1.50 Ph \$2.00.
- OSRD 5152 PBL 8342 (1-558)
Wheeler, T. L., and Latham, A., Jr.
Liquid oxygen pump and vaporizer. 1945.
40p illus. MI \$1.50 Ph \$3.00.
- OSRD 5153 PBL 8604 (1-539)
McCabe, W. L.
Monthly progress report: Central Engineering Laboratory, National Defense Research Committee. Covering period: April 1 to 30, 1945. 1945.
46p MI \$1.50 Ph \$4.00.
- OSRD 5154 PBL 8339 (1-539)
Lobo, W. E., and Bockius, C.
Report oxygen plant development employing regenerative chemicals. 1945.
44p MI \$1.50 Ph \$3.00.
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- OSRD 5159 PBL 33355 (2-746)
Bausch and Lomb Optical Co., Rochester, N. Y.
Superposed image rangefinder. Final report. Jun 1945.
13p drawings, photos. MI \$1.00 Ph \$1.00.
- OSRD 5165 PBL 11208 (1-700)
Caywood, W.
Model study of the Rotafail: Final report. Jun 1945.
33p illus. MI \$1.50 Ph \$3.00.
- OSRD 5166 PBL 19804 (2-191)
Caywood, W.
An acoustic volume-measuring device. May 1945.
26p graph, photo, diagrs. MI \$1.50 Ph \$2.00.
- OSRD 5168 PBL 12156 (1-902)
Herbert, Marvin J., and Keller, Fred S.
The use of hand-sent clear text as practice material in learning to receive Morse code. Jun 1945.
10p MI \$1.50 Ph \$1.00.
- OSRD 5169 PBM 5876 (1-560)
Renshaw, Birdsey
Observations on the role of water in the susceptibility of human skin to vesicant vapors, to April 12, 1945. 1945.
36p illus. Ph \$3.00 MI \$1.50.
- OSRD 5171 PBL 23705 (2-465)
Bargmann, Valentine
On nearly glancing reflection of shocks. Mar 1945.
55p figs. MI \$1.00 Ph \$4.00.
- OSRD 5173 PBL 23698 (2-493)
Brillouin, Leon
Oscillations in a plane one-anode magnetron. May 1945.
92p graphs. MI \$1.00 Ph \$7.00.
- OSRD 5174 PBL 12032 (1-767)
Hason, Harry M.
Phonetic characteristics related to intelligibility of words in noise: sounds correctly understood in misunderstood words. Jun 1945.
21p illus. MI \$1.50 Ph \$2.00.
- OSRD 5175 PBL 68914 (5-788)
Beth, R. A., and Schaefer, E. J.
An electromagnetic method for measuring projectile velocity during penetration. Jun. 1945.
34p graphs, drawings. MI \$1.00 Ph \$3.00.
- OSRD 5177 PBL 6693 (1-452)
Bausch & Lomb Optical Co.
Gradient density sun glasses. Final Report. 1945.
14p illus. MI \$1.50 Ph \$1.00.
- OSRD 5180 PBM 5875 (1-561)
Smith, Homer W., and others
The comparative systemic effects of mustard and the nitrogen mustards (HN1, HN2, HN3) in rats, to May 1, 1945. 1945.
20p MI \$1.50 Ph \$2.00.
- OSRD 5181 PBM 5881 (1-495)
Bergmann, Max, and others
The penetration of vesicant vapors into human skin (Supplement OSRD Report 4859, to May 15, 1945. 1945.
7p Ph \$1.00 MI \$1.50.
- OSRD 5196 PBL 19648 (1-1413)
U.S. National Defense Research Committee
Statistical analysis of effect of chemical composition on stress-rupture properties of a group of alloys tested at M.I.T. May 1945.
76p graphs, tables. MI \$1.00 Ph \$6.00.
- OSRD 5197 PBL 12155 (1-1444)
Levin, M. H.
A point score method for evaluating naval personnel. Jun 1945.
41p MI \$1.50 Ph \$3.00.
- OSRD 5198 PBL 12033 (1-982)
Smith, Kinsley R., and others
The effectiveness of classification data in predicting billet performance in training in the amphibious force. Jun 1945.
163p tables. MI \$2.00 Ph \$11.00.
- OSRD 5199 PBL 22009 (1-1692)
Grenell, L. H., and others
Examination of enemy material: (00-113) (AC-77) (N-119). Metallurgical examination of Japanese Homare-II aircraft engine No. 11515. Progress report 178, Apr 28, 1945. Jun 1945.
81p graphs, photos, tables. MI \$1.00 Ph \$6.00.
- OSRD 5200 PBL 22010 (1-1590)
Grenell, L. H., and others
Examination of enemy material: (00-113) (AC-77) (N-119). Metallurgical examination of German and Japanese bushings and oil lines. Progress report 185, Apr 29, 1945. Jun 1945.
6p photos, tables. MI \$1.50 Ph \$1.00.
- OSRD 5203 PBL 12029 (1-904)
Miller, D. R.
Final report in summary of work on the selection of L.C.V.P. coxswains. Jun 1945.
12p MI \$1.50 Ph \$1.00.
- OSRD 5204 PBL 33256 (3-404)
Winckler, J. R., and others
Study of shock waves by interferometry. Jun 1945.
72p photos, tables, diagrs, graphs. MI \$2.00 Ph \$5.00.
- OSRD 5206 PBL 31024 (3-52)
Hoff, H. B., and others
Ambient noise survey, Miami area and the east coast of the United States. Completion report. May 1945.
43p photos, charts, graphs. MI \$1.00 Ph \$3.00.
- OSRD 5207 PBL 31020 (2-990)
Hoff, H. B., and others
Oceanographic studies. Summary report. May 1945.
29p graphs, map. MI \$1.00 Ph \$2.00.
- OSRD 5209 PBL 4223 (1-325)
Wheeler, T. L., and others
E-16 allways fuse for the AN-M69 incendiary bomb. 1945.
12p illus. MI \$1.50 Ph \$1.00.
- OSRD 5214 PBL 8500 (1-759)
Aston, J. C.
Air rectification. 1945.
8p MI \$1.50 Ph \$1.00.
- OSRD 5224 PBL 30767 (2-608)
Rice, Oscar K.
The theory of the burning of double-base rocket powders. Progress report. Jun 1945.
98p MI \$2.00 Ph \$7.00.
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- OSRD 5225 PBL 21120 (2-78)
Telkes, Maria
Solar stills for life rafts: Final report, May 1945. Jun 1945.
35p photos, diagrs, graphs. MI \$1.50 Ph \$3.00.
- OSRD 5226 PBL 16484 (1-1113)
Tucker, C. M., and others
Residual stresses in cold-drawn non-ferrous alloys (00-25): an X-ray study, Part VI: Final report, Feb 15, 1945-May 31, 1945. Jun 1945.
53p diagrs. MI \$1.00 Ph \$4.00.
- OSRD 5227 PBL 22008 (1-1575)
Granell, L. H., and others
Examination of enemy material: (00-113) (AC-77) (N-119). Metallurgical examination of Japanese 47 mm antitank gun. Progress report 181, May 1, 1945. Jun 1945.
38p photos, tables. MI \$1.50 Ph \$3.00
- OSRD 5228 PBL 22007 (2-46)
Granell, L. H., and others
Examination of enemy material: (00-113) (AC-77) (N-119). Metallurgical examination of a Japanese aircraft 20 mm "Browning type" machine gun. Progress report 182, May 1, 1945. Jun 1945.
24p photos. MI \$1.50 Ph \$2.00.
- OSRD 5229 PBL 22006 (1-1490)
Granell, L. H., and others
Examination of enemy material: (00-113) (AC-77) (N-119). Metallurgical examination of small gun barrels. Progress report 177, Apr 23, 1945. Jun 1945.
8p tables, photos. MI \$1.50 Ph \$1.00.
- OSRD 5230 PBL 22005 (1-1490)
Granell, L. H., and others
Examination of enemy material: (00-113) (AC-77) (N-119). Metallurgical examination of tungsten carbide powder and compacts. Progress report 187, May 1, 1945. Jun 1945.
6p tables, photos. MI \$1.50 Ph \$1.00.
- OSRD 5231 PBL 58197 (4-1174)
Gibson, R. E.
Description and instructions for the use of jet-assisted take-off unit, model BAE-1000-HS. Jun 1945.
22p photos, diagrs, graphs. MI \$1.00 Ph \$2.00.
- OSRD 5233 PBL 16486 (1-1042)
Barkson, J. A.
Completion report. Periscope trainer. May 1945.
35p photos. MI \$1.50 Ph \$3.00.
- OSRD 5238 PBL 32211 (2-840)
Fehrenbecher, J. B., and Blacet, F. E.
Gas protection afforded by Japanese canisters. Progress report, May 30, 1945. Jun 1945.
31p diagrs, tables. MI \$1.00 Ph \$3.00.
- OSRD 5241 PBA 6028 (1-540)
Wall, F. T.
Preparation and properties of aerosols. 1945.
5p MI \$1.50 Ph \$1.00.
- OSRD 5245 PBA 5874 (1-496)
Cori, Carl F., and others
Effects of bis (beta-chloroethyl) sulfide (B) and bis (beta-chloroethyl) methanamine (MK2) on enzymes in vitro and in vivo, to February 28, 1945. 1945.
41p MI \$1.50 Ph \$3.00.
- OSRD 5247 PBA 6937 (1-497)
Smith, Lee Irvin, and Engelhardt, Vaughn
Paraphenylenediamine compounds, to February 10, 1944. 1945.
31p Ph \$3.00 MI \$1.50.
- OSRD 5251 PBL 34764 (3-267)
Penner, S. S.
Radiation phenomena in rockets. Oct. 1945.
88p graphs, tables. MI \$2.00 Ph \$6.00.
- OSRD 5253 See OSRD 4891.
- OSRD 5254 PBL 4610 (1-322)
Standard Oil Development Company
Development of the M68X incendiary bomb. 1945.
39p Ph \$3.00 MI \$1.50.
- OSRD 5258 PBL 68913 (5-788)
Beth, Richard A.
Penetration theory: Separable force laws and the time of penetration. Jun 1945.
22p drawings, graphs. MI \$1.00 Ph \$2.00.
- OSRD 5261 PBL 40543 (3-739)
Kissam, Philip
Evaluation of Second Air Force harmonization procedures. Jul 1945.
18p graph. MI \$1.00 Ph \$2.00.
- OSRD 5262 See OSRD 4866.
- OSRD 5263 PBL 19790 (1-1246)
Avery, Howard S., and Cook, Earnshaw
Heat-resistant alloys for ordnance material aircraft and naval engine parts (N-102): Final report, Part I. Heat-resistant alloys of the 21% Cr: 9% Ni type. Jun 1945.
51p photos, tables, curves. MI \$1.00 Ph \$4.00.
- OSRD 5264 PBL 19655 (1-1347)
Gensamer, M., and others
Plastic flow of aluminum aircraft sheet under combined loads. (NA-149) (NA-150): Part V. Strain distribution in formed parts. Final report, Dec 31, 1944. Jun 1945.
38p curves, diagrs, phot. MI \$1.50 Ph \$3.00.
- OSRD 5266 PBL 18486 (1-1438)
Granell, L. H., and others
Examination of enemy material (00-113) (AC-77) (N-119): metallurgical examination of a German canteen and messkit; and Japanese canteens and helmets. Progress report. Jun 1945.
24p MI \$1.50 Ph \$2.00.
- OSRD 5269 PBL 18362 (1-1270)
Lindsay, Donald B., and others
Factors determining accuracy of reception of oscilloscope code. Jun 1945.
20p tables. MI \$1.50 Ph \$2.00.
- OSRD 5282 PBL 20214 (1-1500)
Gensamer, M., and others
Plastic flow of aluminum aircraft sheet under combined loads (NA-149) (NA-150): Part I. Development of tests for forming limits; stress-strain curves under combined loads. Final report, Dec 31, 1944. Jun 1945.
34p photos, diagrs, graphs. MI \$1.50 Ph \$3.00.
- OSRD 5283 PBL 19553 (1-1347)
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Plastic flow of aluminum aircraft sheet under combined loads (NA-149) (NA-150): Part II. Forming limits for aircraft sheets at room temperature. Final report, Dec 31, 1944. Jun 1945.
54p curves, photos, tables. MI \$1.00 Ph \$4.00.
- OSRD 5284 PBL 19556 (1-1347)
Gensamer, M., and others
Plastic flow of aluminum aircraft sheet under combined loads. (NA-149) (NA-150): Part IV. Theory of forming limits. Final report, Dec 31, 1944. Jun 1945.
44p curves. MI \$1.50 Ph \$3.00.
- OSRD 5285 PBA 4247 (1-347)
Smith, Lee Irvin, and others
Preparation of candidate insect repellents. 1945.
5p Ph \$1.00 MI \$1.50.
- OSRD 5288 PBL 58222 (4-989)
Union Switch and Signal Co., Swissvale, Pa.
VB-1 tail assembly. Final Report, Jun 1, 1943 to Mar 30, 1944. Jun 1945.
53p photos, diagrs. MI \$2.00 Ph \$4.00.
- OSRD 5294 PBL 39576 (3-496)
Karlén, J. E.
Auditory tests for the ability to discriminate the pitch and the loudness of noises. Aug 1945.
35p tables, graphs, diagrs. MI \$1.00 Ph \$3.00.
- OSRD 5295 PBL 27344 (2-536)
McCormick, W. W., and Fairbanks, A. F.
The type 200 microflash lamp and a microflash unit for ballistic photography. Final report, Jan 1, 1943-Feb 28, 1945. Apr 1945.
22p diagrs, photos. MI \$1.00 Ph \$2.00.
- OSRD 5297 PBL 27338 (2-441)
Hole, W. L., and McCormick, W. W.
The high intensity flash lamp, type 10. Final supplementary report, Aug 25, 1943 to Mar 1, 1945. Oct 1945.
22p photos. MI \$1.00 Ph \$2.00.
- OSRD 5298 PBL 27340 (2-574)
Hole, W. L., and Holland, L. H.
A photocell test set. Final report, Nov 1, 1943 to Jul 19, 1944. Apr 1945.
69p diagrs, graphs, photos. MI \$2.00 Ph \$5.00.
- OSRD 5299 PBL 27351 (2-570)
Bemis, Alan C., and others
Improved far infrared receivers and associated optics. Jul 1945.
27p photos, graphs, drawing. MI \$1.00 Ph \$2.00.
- OSRD 5300 PBL 27308 (2-644)
Homer, E. C.
Concentrated-arc lamps. Final report May 12, 1943-Sep 1, 1945. Aug 1945.
109 diagrs, photos. MI \$3.00 Ph \$8.00.
- OSRD 5302 PBL 13306 (1-900)
Frederiksen, Norman
A further study of the validity of the Arithmetical computation test. Jul 1945.
12p MI \$1.50 Ph \$1.00.

- OSRD 5307 PBL 12159 (1-1197)
Mason, Harry M.
Indoctrination for voice communication at altitude. Jul 1945.
39p photos, diagr, tables. MI \$1.50 Ph \$3.00.
- OSRD 5309 PBM 15638 (1-1061)
Johnstone, H. F., and others
The development of an aerosol generator for dispersing DDT solutions from the exhaust of an aircraft engine: to Jun 1, 1945. Jul 1945.
70p photos, diagr, graphs, tables. MI \$1.00 Ph \$5.00.
- OSRD 5310 PBM 15635 (1-1061)
Hodges, Kenneth C., and Rowell, John C.
Test of large area mosquito control using the inventors' model of the Hochberg-Lamer aerosol generator in Lodge Village, Georgetown, B. G. on April 12, 1945. Jul 1945.
13p table, maps. MI \$1.50 Ph \$1.00.
- OSRD 5313 PBL 20288 (2-108)
Berry, Richard M., and others
A system of automatic devices for the detection and recording of errors in a 105 mm. Howitzer battery. Jul 1945.
22p photos, diagr. MI \$1.50 Ph \$2.00.
- OSRD 5314 PBL 27554 (2-108)
Columbia University. Airborne Instruments Laboratory
Saturated-core magnetometers, MA-120. May 1945.
40p diagr, graphs. MI \$1.00 Ph \$3.00.
- OSRD 5319 PBL 28639 (2-440)
Carnegie Institution of Washington. Mount Wilson Observatory
Optical tests of five lenses for aerial photography. Sep 1945.
39p graphs. MI \$1.00 Ph \$3.00.
See also PB 28522.
- OSRD 5323 PBL 22900 (2-35)
Bartholomew, E. L., Jr., and others
Examination of enemy material (OD-113) (AC-77) (N-119): Metallurgical investigation of an 8 cm. Japanese anti aircraft gun. Progress report. Jul 1945.
43p drawings, graphs, photos. MI \$1.50 Ph \$3.00.
- OSRD 5324 PBL 4440 (1-405)
Mason, P. H., and others
Memorandum on operational drill charts for solo-shell evaporators, destroyer escorts and APDs, DE converted (steam driven), and instructor's manual. 1945.
19p Ph \$2.00 MI \$1.50.
- OSRD 5325 PBL 24881 (2-329)
Kornel, O., and others
Investigations on new magnetic recording media. Final report. Jun 1945.
103p photos, tables, graphs, diagr. MI \$1.50 Ph \$7.00.
- OSRD 5328 PBL 23696 (2-298)
Harvard University. Applied Mathematics Group
An exposition of Wiener's theory of prediction. Jun 1945.
19p MI \$1.50 Ph \$2.00.
- OSRD 5329 PBL 8610 (1-538)
Keyes, F. G.
Oxygen generating equipment: Final report June 30, 1945. 1945.
377p illus. MI \$4.00 Ph \$26.00.
- OSRD 5331 PBL 22000 (1-1519)
Smithers, V. L., Laboratories and Columbian Carbon Company
Examination of enemy material: (OD-113) (AC-77) (N-119). Metallurgical examination of tire and tube from Japanese plane "Frances." Progress report 166, May 24, 1945. Jul 1945.
13p photos. MI \$1.50 Ph \$1.00.
- OSRD 5332 PBL 19573 (1-1411)
Sachs, George, and others
Correlation of information available on the fabrication of aluminum alloys (MA-126): Final report. Section V, Formability of aluminum alloys for use in military aircraft: Part VI, Stretching of rectangular bars. Jun 1945.
22p tables, graphs. MI \$1.50 Ph \$2.00.
- OSRD 5333 PBL 31210 (2-653)
Schaefer, Raymond M., and others
Experimental production of pilot static and centrifugal castings for the armed services: Part II—Precision casting of gas turbine diaphragms. Final report, Mar 1945. Jul 1945.
51p photos, tables, graphs. MI \$2.00 Ph \$4.00.
- OSRD 5334 PBL 30773 (2-589)
Gardner, Frank S., and Avery, Howard S.
Heat resistant alloys for ordnance material and aircraft and naval engine parts: Part II—Cobalt and nickel in 26% Cr alloys. Final report. Jul 1945.
26p MI \$1.00 Ph \$2.00.
- OSRD 5338 PBM 31956 (2-810)
Silverman, Leslie, and others
Fundamental factors in the design of protective respiratory equipment. A portable instrument for measuring respiratory air flows under field conditions. Progress report, Jun 1, 1945. Jul 1945.
54p MI \$2.00 Ph \$4.00.
- OSRD 5339 PBM 31957 (2-810)
Silverman, Leslie, and others
Fundamental factors in the design of protective respiratory equipment. A study and an evaluation of inspiratory and expiratory resistances for protective respiratory equipment. Progress report, May 1, 1945. Jul 1945.
562p MI \$12.00 Ph \$38.00.
- OSRD 5344 PBL 15643 (1-1012)
Brinton, R. K., and Otvos, J. M.
Operation manual for Dickinson Field Conductivity meter. (Progress report.) June 25, 1945. Jul 1945.
37p photos, diagr, tabs. MI \$1.50 Ph \$3.00.
- OSRD 5346 PBL 33212 (2-971)
Griffie, LeYan, and Morikawa, George K.
The behavior of steel under conditions of multiaxial stress and the effect on this behavior of metallographic structure and chemical composition (NS 307) (welded series and special unwelded tests). Second progress report, Oct 15, 1944-Feb 15, 1945. Jul 1945.
46p photos, curves, drawings, tables. MI \$1.00 Ph \$4.00.
- OSRD 5352 PBL 31209 (2-514)
DeGarmo, E. Paul, and others
Cleavage fracture of ship plate as influenced by design and metallurgical factors (NS-336): Hatch corner specimen tests. Progress report, Nov 1, 1944-Mar 15, 1945. Jul 1945.
58p photos. MI \$2.00 Ph \$4.00.
See also PB's 19934 and 19935.
- OSRD 5357 PBL 22004 (2-45)
Bartholomew, E. L., and others
Examination of enemy material (OD-113; AC-77; N-119): Metallurgical investigation of Japanese 37 mm. tank gun. Progress report 184, May 31, 1945. Jul 1945.
22p graphs, photos. MI \$1.50 Ph \$2.00.
- OSRD 5359 PBA 33342 (2-863)
Carnegie Institution of Washington. Geophysical Laboratory
Studies and investigations in connection with the development of a new light source consisting of a phosphor rod irradiated by high voltage electrons. Final report. Jun 1945.
77p tables, graphs, diagr. MI \$2.00 Ph \$6.00.
- OSRD 5360 PBL 33363 (2-864)
Miller, M. F.
Infrared stimulation of phosphors. Final report. Aug 1, 1943-Jun 30, 1945. Jul 1945.
50p tables, diagr. MI \$1.00 Ph \$4.00.
- OSRD 5361 PBL 33366 (2-862)
Barnett, C. E.
Development of phosphorescent materials. Final report, Sep 15, 1942-Jun 1, 1945. Jul 1945.
35p tables, graphs. MI \$1.00 Ph \$3.00.
- OSRD 5362 PBL 33365 (2-862)
Barnett, C. E.
Luminescent materials. Final report, Sep 15, 1942-Jun 30, 1945. Jul 1945.
19p MI \$1.00 Ph \$2.00.
- OSRD 5364 PBL 12152 (1-766)
Keller, Fred S., and Herbert, Marvin J.
Goodness of signal formation in sending International Morse Code. Jul 1945.
17p MI \$1.50 Ph \$2.00.
- OSRD 5365 PBL 12153 (1-766)
Jerome, Edward A., and Keller, Fred S.
A test of two "remedial" devices in high-speed code reception. Jul 1945.
17p MI \$1.50 Ph \$2.00.
- OSRD 5366 PBL 12151 (1-766)
Keller, Fred S., and Jerome, Edward A.
Progress in receiving International Morse code. Jul 1945.
47p illus. MI \$1.50 Ph \$4.00.
- OSRD 5374 PBL 30780 (2-513)
Heussner, C. E., and others
Examination of enemy material (OD-113) (AC-77) (N-119): Metallurgical examination of flap tracks from "Judy" and "Frances" and skin sections from "Frank." Progress report No. 186, Apr 30, 1945. Jul 1945.
9p drawings, photo. MI \$1.00 Ph \$1.00.

- OSRD 5377 PBL 33351 (2-863)
Fonda, G. R.
Preparation and characteristics of zinc sulfide phosphors stimulated by infra-red. Final report. Jul 1945.
19p MI \$1.00 Ph \$2.00.
- OSRD 5379 PBL 12154 (1-1215)
Keller, Fred S.
The radio code research project. Final report of Project SC-88. Jul 1945.
8p MI \$.50 Ph \$1.00.
- OSRD 5380 PBL 15865 (1-1184)
Gensamer, Maxwell, and others
Correlation of laboratory tests with full scale ship plate fracture tests (NS-336). Final report. Jul 1945.
24p graphs. MI \$.50 Ph \$2.00.
- OSRD 5382 PBL 33191 (3-282)
Cohen, Leon M.
Aerodynamic lead pursuit courses. Jul 1945.
70p diagrs, tables. MI \$2.00 Ph \$5.00.
See also PB 5584.
- OSRD 5383 See OSRD 4088.
- OSRD 5385 PBL 27292 (2-939)
Keyne, F. G., and others
Stability and concentration of hydrogen peroxide. Final report. Aug 1945.
22p drawings. MI \$1.00 Ph \$2.00.
- OSRD 5386 PBL 34122 (3-49)
U.S. National Defense Research Committee
Studies of the design of illuminated reticles for stereoscopic range and height finders. Jun 1945.
29p drawing, table. MI \$1.00 Ph \$2.00.
- OSRD 5390 PBA 5631 (1-459)
Boidebeck, Edith M., and Brown, Meldon G.
Ultraviolet absorption spectra of compounds related to DOT, to July 19, 1945. 1945.
13p illus. Ph \$1.00 MI \$.50.
- OSRD 5393 PBL 43050 (3-659)
Montgomery, D., and Taub, A. H.
Reactions of simple systems under blast loading. Monthly report Jun 25-Jul 25, 1945. Aug. 1945.
17p graph, tables. MI \$1.00 Ph \$2.00.
- OSRD 5395 PBL 13112 (1-806)
Benson, A. H.
Airborne odograph: a device for indicating and graphically recording the ground position and track of an aircraft during flight. Jul 1945.
67p illus. MI \$1.00 Ph \$6.00.
- OSRD 5397 PBL 30709 (2-627)
Shriner, R. L.
Color tests for high explosives. Progress report. Aug 1945.
16p MI \$1.00 Ph \$2.00.
- OSRD 5402 PBL 28633 (2-488)
Rochester University
The prism method for harmonization of B-29 remote control turrets. Aug 1945.
47p photos, sketches. MI \$1.00 Ph \$4.00.
- OSRD 5403 PBL 28087 (2-530)
Peterson, Max
The wire method for harmonization of B-29 remote control turrets. Aug 1945.
45p photos. MI \$1.00 Ph \$3.00.
- OSRD 5404 PBL 28632 (2-536)
Merrill Flood and Associates, Princeton, N.J.
The mirror bore-sight method for harmonization of B-29 remote control turrets. Aug 1945.
12p MI \$1.00 Ph \$1.00.
- OSRD 5407 PBL 8346 (1-607)
Von Berg, Robert L., and Catterall, M. E.
Characteristics of the oxygen absorbents, Ethomine and Fluomine. 1945.
138p illus. MI \$1.50 Ph \$10.00.
- OSRD 5408 PBL 31061 (2-892)
Keller, J. B., and others
The acoustic shielding effect of baffles. Jul 1945.
89p graphs. MI \$2.00 Ph \$6.00.
- OSRD 5409 PBL 22003 (2-46)
Grenell, L. H., and others
Examination of enemy material (00-113; AC-77; H-119): Metallurgical examination of a Japanese 50 mm mortar grenade smoke shell and fuze. Progress report 189, Jun 14, 1945. Aug 1945.
7p photos, tables. MI \$.50 Ph \$1.00.
- OSRD 5410 PBL 22002 (2-46)
Grenell, L. H., and others
Examination of enemy material (00-113; AC-77; H-119): Metallurgical examination of a Japanese 20 mm aircraft machine gun. Progress report 190, Jun 19, 1945. Aug 1945.
11p photos. MI \$.50 Ph \$1.00.
- OSRD 5411 PBL 22001 (1-1590)
Grenell, L. H., and others
Examination of enemy material: (00-113) (AC-77) (H-119). Metallurgical examination of float strut from Japanese aircraft "Paul." Progress report 191, Jun 22, 1945. Aug 1945.
10p photos, tables. MI \$.50 Ph \$1.00.
- OSRD 5413 PBL 12031 (1-757)
Hason, Harry M.
Studies of voice factors affecting the intelligibility of voice communication in noise: II. Pitch. Aug 1945.
19p illus. MI \$.50 Ph \$2.00.
- OSRD 5414 PBL 12030 (1-902)
Haugen, C. Hess
Intelligibility measurement: twelve-word tests. Aug 1945.
24p MI \$.50 Ph \$2.00.
- OSRD 5420 PBL 15890 (1-1360)
Wells, Cyril, and others
Improvement in wrought gun tubes (00-34-3): Final report. Part I—Operating characteristics of specification WYX-78, Vol. I. Jun 1945. Aug 1945.
123p MI \$1.50 Ph \$8.00.
For Vol. II see PB 15893.
- OSRD 5420 PBL 15893 (1-1422)
Wells, Cyril, and others
Improvement in wrought gun tubes (00-34-3): Part I—Operating characteristics of specification WYX-78, Vol. II. Final report, Aug 6, 1945. Aug 1945.
154p charts, curves, tables.
MI \$2.00 Ph \$11.00.
For Vol. I see PB 15890.
- OSRD 5422 PBL 12028 (1-1043)
Smith, Kinsley, R.
Final report in summary of work in job analysis qualification and placement of personnel in the amphibious force. Aug 1945.
22p MI \$.50 Ph \$2.00.
- OSRD 5423 PBL 5584 (1-823)
Cohen, Leon M.
Equations for aerodynamic lead pursuit courses. Jul 1945.
54p diagrs. MI \$.50 Ph \$3.00.
- OSRD 5425 PBL 16459 (1-1190)
Kappauf, William E.
Summary of research on psychological problems in the operation of antiaircraft lead computing sights and directors. Final report, Sep 29, 1945. Sep 1945.
12p MI \$.50 Ph \$1.00.
- OSRD 5430 PBA 5892 (1-1143)
Swift, E. H., and Niemann, Carl.
A system for the ultimate analysis of chemical warfare agents; Part III. Progress report to June 22, 1945. Aug 1945.
122p MI \$1.50 Ph \$9.00.
- OSRD 5434 PBA 5893 (1-408)
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A course of instruction for the personnel of the ultimate analysis section of the M-2 Chemical Laboratory Company. 1945.
24p Ph \$2.00 MI \$.50.
- OSRD 5438 PBL 15832 (1-1409)
Mehl, R. F., and others
Improvement in gun steel ingot practice (00-34-3). Part II. Plant experiments. Final report, Jun 15, 1945. Aug 1945.
39p diagrs, photos. MI \$.50 Ph \$3.00.
- OSRD 5440 PBL 34748 (2-885)
Gross, G. L., and Spaulding, M. P.
Tables of ranges and times of flight for projectiles with small ballistic coefficients. Aug 1945.
32p charts, tables. MI \$1.00 Ph \$3.00.
- OSRD 5441 PBL 27420 (2-436)
Albert, A. A.
Camera evaluation of bomber gun sights. Jul 1945.
153p graphs, photos, tables.
MI \$4.00 Ph \$11.00.
- OSRD 5444 PBL 33246 (2-822)
Eastman Kodak Co., Rochester, N. Y.
A spectrograph for aerial use (the spectrograph). Dec 1944.
65p photos, diagrs, tables.
MI \$2.00 Ph \$5.00.
- OSRD 5445 PBL 34775 (2-978)
Haskell, M. A.
An analytical approximation for the underwater trajectory of a nonrotating projectile. Jun 1945.
38p graphs. MI \$1.00 Ph \$3.00.
- OSRD 5449 PBL 22477 (2-236)
Mathers, Frank C.
Investigation of methods of producing magnesium fluoride for the filming of lenses. Aug 1945.
17p MI \$.50 Ph \$2.00.

- OSRD 5451 PBA 5928 (1-471)
Holzman, George
The sampling and estimation of AC in the presence of titanium-tetrachloride, chlorosulfonic acid, and sulfur trioxide smokes. 1945.
44p illus. Ph \$3.00 MI \$5.00.
- OSRD 5452 PBA 5904 (1-481)
Price, Charles C., and Jackson, William G.
Some aspects of the behavior of the fluoroacetates and fluoroethanol as water contaminant. 1945.
42p MI \$5.00 Ph \$3.00.
- OSRD 5453 PBL 15833 (1-1356)
Mehl, R. F., and others
Improvement in wrought gun tubes (00-34-3). Final report. Part II: Effect of the angle of test (relative to fiber direction) on the tensile and impact properties of quenched and tempered steel forgings. Jun 1945. Aug 1945.
25p graphs, tables. MI \$5.00 Ph \$2.00.
- OSRD 5454 PBL 15834 (1-1356)
Mehl, R. F., and others
Improvement in wrought gun tubes (00-34-3). Final report. Part III: Linear correlations among the tensile and impact properties in quenched out gun tubes. Jun 1945. Aug 1945.
26p graphs, tables, photos. MI \$5.00 Ph \$2.00.
- OSRD 5455 PBL 15835 (1-1357)
Mehl, R. F., and others
Improvement in wrought gun tubes (00-34-3). Final report. Part V: Effect of forging reduction on average ductility (reduction of area, transverse and longitudinal). Jun 1945. Aug 1945.
22p graphs, tables. MI \$5.00 Ph \$2.00.
- OSRD 5456 PBL 21998 (1-1436)
Grenell, L. H., and others
Examination of enemy material: (00-113) (AC-77) (N-119). Metallurgical examination of a German Volkswagen engine. Progress report 1942, Jul 11, 1945. Aug 1945.
33p photos. MI \$5.00 Ph \$3.00.
- OSRD 5457 PBL 24886 (2-213)
Hill, G. Albert, and Clarke, R. G.
Tests of photoflash bombs. Progress report. Aug 1945.
37p photos, graphs, tables. MI \$5.00 Ph \$3.00.
- OSRD 5458 PBL 4453 (1-467)
Viteles, Morris S., and others
Summary of project NR-106 activity at Pre-commissioning Engineering Training Center. Treasure Island, California. 1945.
44p Ph \$3.00 MI \$5.00.
- OSRD 5459 PBL 4452 (1-466)
Organist, M. E., and Willis, M. G.
Progressive engineering instruction stage III, operational training building. Organization of instruction: Instructor's manual, "A" division; Instructor's manual, "B" division; Instructor's manual, "M" division; Instructor's manual "E" division. 1945.
25p Ph \$2.00 MI \$5.00.
- OSRD 5461 PBL 12156 (1-1197)
Mason, Harry M.
Training studies in voice communication: III. Effects of training in articulation. Aug 1945.
17p MI \$5.00 Ph \$2.00.
- OSRD 5464 PBL 21118 (1-1402)
Brown, R. M., and others
The mechanical evaluation of various types of integrals from a plot of the dependent variable as some function of the independent variable: The theory, construction, and use of the simultaneous multiple-function integrator. Aug 1945.
21p diagrs. MI \$5.00 Ph \$2.00.
- OSRD 5467 PBL 5406 (1-437)
Kharasch, M. S., and others
Stabilization of CK to July 9, 1945. 1945.
6p illus. Ph \$1.00 MI \$5.00.
- OSRD 5468 PBA 5497 (1-472)
Shriner, R. L., and Specks, J. C., Jr.
The Synthesis of substituted isoquinolines as antimicrobial intermediates. 1945.
15p Ph \$1.00 MI \$5.00.
- OSRD 5469 PBL 23728 (2-456)
New York University. Applied Mathematics Group
Remarks on the mathematical theory of detonation and deflagration waves in gases (supplement to the manual on supersonic flow and shock waves). Jul 1945.
49p graphs. MI \$5.00 Ph \$4.00.
Suppl. to PB 23779.
- OSRD 5470 PBL 5485 (1-470)
Brown, M. G., and others
Field sampling of H vapors with tape recorders. 1945.
79p illus. Ph \$6.00 MI \$1.00.
- OSRD 5471 PBL 18425 (1-1247)
Butts, Allison, and Reiber, Paul L., Jr.
Investigation of the effects of impurities on the ferro-magnetism of non-ferrous alloys (00-156): Final report, Jan 15, 1944-May 31, 1945. Aug 1945.
122p tables, curves. MI \$1.50 Ph \$9.00.
- OSRD 5472 PBL 21999 (1-1434)
Grenell, L. H., and others
Examination of enemy material: (00-113) (AC-77) (N-119). Metallurgical examination of a Japanese Kawasaki type 2 aircraft engine. Progress report 188, May 8, 1945. Aug 1945.
87p photos. MI \$1.00 Ph \$6.00.
- OSRD 5476 PBL 15836 (1-1421)
Mehl, R. F., and others
Improvement in wrought gun tubes (00-34-3). Part VI: Effect of reheat treatment (re-quent and draw) and redraw on transverse ductility. Final report, Jun 1945. Aug 1945.
31p graphs, tables. MI \$5.00 Ph \$3.00.
- OSRD 5477 PBL 15837 (1-1357)
Mehl, R. F., and others
Improvement in wrought gun tubes (00-34-3): Final report. Part VII: Effect of upsetting on average transverse ductility in seamless gun tubes. Jun 1945. Aug 1945.
18p graphs, photos, tables.
MI \$5.00 Ph \$2.00.
- OSRD 5478 PBL 21997 (1-1418)
Grenell, L. H., and others
Examination of enemy material: (00-113) (AC-77) (N-119). Metallurgical examination of A. P. and M. E. ammunition for Japanese 20 mm. Browning-type gun. Progress report 194, Jul 13, 1945. Aug 1945.
9p photos. MI \$5.00 Ph \$1.00.
- OSRD 5479 PBL 21996 (1-1436)
Grenell, L. H., and others
Examination of enemy material: (00-113) (AC-77) (N-119). Metallurgical examination of German crashflak helmet and Japanese horseshoes and shoe last. Progress report 195. Jul 18, 1945. Aug 1945.
11p photos, tables. MI \$5.00 Ph \$1.00.
- OSRD 5480 PBL 21995 (1-1419)
Grenell, L. H., and others
Examination of enemy material: (00-113) (AC-77) (N-119). Metallurgical examination of a Japanese 40 mm. A.P. H.E. shell. Progress report 197, Jul 18, 1945. Aug 1945.
6p photos. MI \$5.00 Ph \$1.00.
- OSRD 5481 PBL 23257 (2-892)
Kirkwood, John, G., and Brinkley, Stuart R., Jr.
Theoretical blastwave curves for cast TNT. Aug 1945.
12p graph, tables. MI \$1.00 Ph \$1.00.
- OSRD 5485 PBL 19649 (1-1359)
Shiffman, Max, and Spencer, Donald C.
The force of impact on a sphere striking a water surface. Second approximation. Jul 1945.
68p graphs, photos. MI \$1.00 Ph \$5.00.
- OSRD 5488 PBL 15639 (1-1136)
Johnstone, H. F., and Boglia, M. J.
The development of an exhaust smoke generator for military aircraft, July 20, 1945. Aug 1945.
55p photos, tables, graphs.
MI \$1.00 Ph \$4.00.
- OSRD 5491 PBL 15839 (1-1184)
Fitterer, G. R., and O'Donnell, William M.
Time-temperature-hardness relations in new gun steels. Final report, Jan 31, 1945. Aug 1945.
40p graphs, charts. MI \$5.00 Ph \$3.00.
- OSRD 5492 PBL 19938 (1-1244)
Banta, H. M., and others
Investigation of metallurgical quality of steels used for hull construction (N-255): Progress report, Jun 15, 1945. Aug 1945.
106p MI \$1.50 Ph \$8.00.
- OSRD 5493 PBL 21994 (1-1406)
Grenell, L. H., and others
Examination of enemy material: (00-113) (AC-77) (N-119). Metallurgical examination of a Japanese 7.92 mm. type 1 flexible A/C machine gun (twin barreled) and a flexible ammunition chute for type 2, hand-operated turret 12.7 mm. machine gun, Sally and Lily dorsal position. Progress report 193, Jul 12, 1945. Aug 1945.
18p photos, tables. MI \$5.00 Ph \$2.00.
- OSRD 5497 PBL 12164 (1-903)
Mallory, Louis A., and Temple, William J.
Final report in summary of work on the selection and training of telephone talkers. Aug 1945.
38p MI \$5.00 Ph \$3.00.
- OSRD 5499 PBL 33204 (2-803)
Gucker, F. T., Jr., and others
A sensitive photoelectric smoke penetrometer. Progress report, Jul 30, 1945. Aug 1945.
30p photos, graphs, diagrs.
MI \$1.00 Ph \$2.00.

- OSRD 5504 PBL 21992 (1-1482)
Grenell, L. H., and others
Examination of enemy material (OD-112; AC-77; M-119). Metallurgical examination of a German Panther, Mark V, tank engine. Progress report 198, Jul 23, 1945. Aug 1945.
22p photos, tables. MI \$1.50 Ph \$2.00.
- OSRD 5505 PBL 4450 (1-465)
Organist, M. E.
Progressive engineering instruction, stage 111: operational training building, general quarters drills. 1945.
12p Ph \$1.00 MI \$1.50.
- OSRD 5507 PBL 4451 (1-465)
Covner, B. J., and others
The construction and validation of a work readiness test for distilling plant operators. 1945.
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- OSRD 5508 PBL 4440 (1-465)
Covner, B. J., and Vitales, M. S.
Summary of project NR-106 activity at CVE Pre-commissioning School, Puget Sound Navy Yard, Bremerton Washington. 1945.
18p illus. Ph \$2.00 MI \$1.50.
- OSRD 5510 PBL 15527 (1-1018)
Clark, J. H.
Exhaust aerosol generator on the PBJ-31 for the dispersal of DDT and oil smoke. (Progress report.) Aug 1945.
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9p photos. MI \$1.50 Ph \$1.00.
- OSRD 5518 PBL 21989 (1-1418)
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10p photos, tables. MI \$1.50 Ph \$1.00.
- OSRD 5519 PBL 21988 (1-1419)
Grenell, L. H., and others
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12p photos, tables. MI \$1.50 Ph \$1.00.
- OSRD 5521 PBL 4448 (1-457)
Moss, R. A., and Wesley, S. M.
Constructing work readiness tests. 1945.
14p Ph \$1.00 MI \$1.50.
- OSRD 5522 PBL 4611 (1-322)
Standard Oil Development Company
Penetration and performance tests of small incendiary bombs in a typical central German structure. 1945.
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Phosphorus-phosphorus sesquioxide eutectic as a special flame-thrower fuel. Final report, Aug 1945.
119p drawings, graphs, tables. MI \$3.00 Ph \$8.00.
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Wheeler, T. L., and Bogrow, A.
Thickened EMP fuels and ejection devices for EMP fuels. Progress report. Aug 1945.
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Lucks, C. F.
Test methods of the Materials Laboratory, Engineering Division, Air Technical Service Command, Wright Field, Dayton, Ohio: Advisory report, Part I, Test methods of the Structural and Mechanical Test Branch, volumes 1-11. Sep 1945.
206p photos, drawings. MI \$2.50 Ph \$14.00.
- OSRD 5547 PBL 18853 (2-554)
U. S. Office of Scientific Research and Development
Studies of the toxicity of DINA (bis-nitroxyethylnitramine) ($O_2NOCH_2CH_2NO_2$). Jan 1946.
67p photos, tables, graphs. MI \$1.00 Ph \$5.00.
- OSRD 5548 PBL 16737 (1-1125)
Manner, Nancy, and McClure, F. T.
The reduced specific impulse of ideal gases. Oct 1945.
46p tabs, graphs. MI \$1.50 Ph \$4.00.
- OSRD 5555 PBL 13292 (1-982)
Satter, G. A., and Conrad, R. S.
Predicting success in service school from the order of assignment. Sep 1945.
35p tables. MI \$1.50 Ph \$3.00.
- OSRD 5557 PBL 13291 (1-904)
Satter, G. A.
An evaluation of the personal inventory and certain other measures in the prediction of Submarine Officers evaluation of enlisted men. Sep 1945.
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- OSRD 5562 PBL 40553 (3-550)
England, B. C., and Howk, B. M.
Synthesis of chemical warfare toxic and vesicant agents-carbon monoxide pentamer. Progress report, Feb 9, 1945. Sep 1945.
14p tables. MI \$1.00 Ph \$1.00.
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Latta, Randall, and others
A joint report on the effect of particle size and speed of motion of DDT aerosols of uniform particle size in a wind tunnel on the mortality of mosquitoes. Sep 1945.
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- OSRD 5567 PBL 12050 (1-902)
Haagen, C. Hess
Intelligibility measurement: Twenty-four word multiple-choice tests. Sep 1945.
33p MI \$1.50 Ph \$3.00.
- OSRD 5568 PBL 12051 (1-823)
Black, John W.
Final report in summary of work on voice communication. Sep 1945.
83p MI \$1.00 Ph \$5.00.
- OSRD 5574 PBL 30768 (2-608)
Rice, Oscar K.
The theory of the burning of rocket powders. Final report, Aug 31, 1945. Nov 1945.
30p diagr, graph. MI \$1.00 Ph \$2.00.
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- OSRD 5580 PBL 18854 (1-1512)
Stracker, H. A.
Rate studies on primacord detonating fuzes. Progress report Oct 1, 1945. Oct 1945.
8p drawings, tables. MI \$1.50 Ph \$1.00.
- OSRD 5585 PBL 29810 (2-212)
Cotter, T. P., and Jacobs, S. J.
Studies pertaining to the measurement of temperatures in a detonating explosive. Progress report, Dec 1945. Jan 1946.
65p diagrs, photos, tables. MI \$1.00 Ph \$5.00.
- OSRD 5589 PBL 24808 (2-212)
Drake, R. W.
Three-station fragment retardation apparatus at Bruceton. Progress report, Oct 22, 1945. Dec 1945.
32p curves, drawing, diagrs, photos. MI \$1.50 Ph \$3.00.
- OSRD 5592 PBL 24811 (2-212)
Drake, R. W.
Fragment velocity and panel penetration of several explosives in simulated shells. Progress report, Nov 6, 1945. Jan 1946.
40p curves, drawings, tables. MI \$1.50 Ph \$3.00.
- OSRD 5593 PBL 24809 (2-212)
Drake, R. W.
Fundamental study of panel penetration. Progress report, Oct 18, 1945. Nov 1945.
37p diagrs, tables. MI \$1.50 Ph \$3.00.
- OSRD 5598 PBL 34803 (3-6)
Eyster, E. H., and Meltsman, C. A.
The preparation and properties of RDX-Composition A. Dec 1945.
80p photos, tables, graphs. MI \$1.00 Ph \$4.00.
- OSRD 5599 PBL 16746 (1-1252)
Mott, M. S., and others
Experimental production of pilot static and centrifugal castings for the Armed Services: Part 11. The fluidity of cast alloyed steels and irons. Final report, Jul 22, 1945. Sep 1945.
26p photos, tables, graphs. MI \$1.50 Ph \$2.00.

- OSRD 5639 PBL 34754 (2-862)
MacDonald, J.K.L., and Schaaf, S.A.
On the estimation of perturbations due to flow around blast gauges. Sep 1945.
14p drawings. MI \$1.00 Ph \$1.00.
- OSRD 5643 PBA 33341 (2-866)
Ward, Roland
The preparation of infrared phosphors.
Final report, Sep 1, 1943-Aug 31, 1945. Sep 1945.
198p tables, graphs, diagrs, photos.
MI \$4.00 Ph \$14.00.
- OSRD 5644 PBL 28640 (2-535)
Carnegie Institution of Washington, Mount Wilson Observatory
Two-mirror Schmidt camera for aerial photography. Final report Sep 1945.
43p photos, diagrs. MI \$1.00 Ph \$3.00.
- OSRD 5647 PBL 12065 (1-899)
Campbell, Ronald K.
Final report in summary of research and development of classification aids by NDRC Project M-116a. Sep 1945.
16p MI \$1.50 Ph \$2.00.
- OSRD 5649 PBL 33254 (2-892)
Brinkley, Stuart R., Jr., and Kirkwood, John G.
Tables and graphs of the theoretical peak pressures, energies, and impulses of shock waves from explosive sources in sea water. Oct 1945.
27p graphs, tables.
MI \$1.00 Ph \$2.00.
- OSRD 5659 PBL 33258 (2-891)
Brinkley, Stuart R., Jr., and Kirkwood, John G.
The blast wave in air produced by line charges. Oct 1945.
44p graphs, tables. MI \$1.00 Ph \$3.00.
- OSRD 5660 PBL 33259 (2-893)
Richardson, John M.
Theory of plastic deformation of thin plates with applications. Oct 1945.
81p graphs, tables. MI \$2.00 Ph \$5.00.
See also PB's 24897, 32181 and 32195.
- OSRD 5665 PBA 27291 (2-794)
Starkey, Robert L., and Schenone, John D.
Microbiological and zoological aspects of paint destruction and metal corrosion. Final report, Nov 1, 1944-Jul 1, 1945. Sep 1945.
77p MI \$2.00 Ph \$6.00.
- OSRD 5667 PBL 13290 (1-900)
Conrad, Herbert S., and Satter, G. A.
The use of test scores and quality-classification ratings in predicting success in Electricians' Mate School. Sep 1945.
35p MI \$1.50 Ph \$3.00.
- OSRD 5669 PBL 5927 (1-560)
Renshaw, Birdsey
Summary report on "Miscellaneous toxicological studies," to September 1, 1945. 1945.
15p Ph \$1.00 MI \$1.50.
- OSRD 5674 PBL 40546 (3-400)
Fastie, William G., and Peters, C. Wilbur
Selective infra-red gas analyzers. Oct 1945.
55p diagrs, drawings, graphs, photos.
MI \$2.00 Ph \$4.00.
- OSRD 5677 PBL 24880 (2-258)
Evjen, Haaken H., and Hills, W. V.
Detection of small foreign bodies imbedded in the top soil by low frequency alternating currents. Final report. Sep 1945.
31p photos, diagrs. MI \$1.50 Ph \$3.00.
- OSRD 5680 PBL 23695 (2-302)
Whitney, Massalar
Tracking and the fire control problem. Sep 1945.
79p MI \$1.00 Ph \$5.00.
- OSRD 5681 PBA 15214 (1-992)
Weston, W. H.
Harvard University tropical fungus culture collection. Oct 1945.
55p MI \$1.00 Ph \$4.00.
- OSRD 5682 PBA 40552 (4-3)
Reuszer, Herbert W.
Bacteria culture collection. Final report. Oct 1945.
14p MI \$1.00 Ph \$1.00.
- OSRD 5683 PBA 11960 (1-1146)
Wellman, R.H., and McCallan, S.E.A.
Fungus resistance of plastics. Sep 1945.
69p MI \$1.00 Ph \$5.00.
- OSRD 5684 PBL 33992 (2-869)
Hutchinson, W. G.
Further studies on the fouling of optical instruments. Report, Sep-Oct, 1945. Oct 1945.
24p tables.
MI \$1.00 Ph \$2.00.
See also PB's 12052, 16418, 16448, 16450, 16451 and 16734.
- OSRD 5685 PBL 58092 (5-6)
Jump, J.A., and Hutchinson, W. G.
The fungus fouling of photographic film. Oct 1945.
24p photos, tables. MI \$1.00 Ph \$2.00.
- OSRD 5686 PBL 33983 (2-869)
Hutchinson, W. G.
Studies on methods of testing hookup wires for resistance to fungus attack. Oct 1945.
54p tables, diagr, photos.
MI \$2.00 Ph \$4.00.
- OSRD 5687 PBL 33994 (2-869)
Hutchinson, W. G.
Studies on methods of testing coating materials for resistance to fungus attack. Oct 1945.
44p table, photos. MI \$1.00 Ph \$3.00.
- OSRD 5688 PBL 33995 (2-869)
Hutchinson, W. G.
Development of a method for testing resistance of plastics to fungus attack. Oct 1945.
45p tables, photos.
MI \$1.00 Ph \$3.00.
- OSRD 5689 PBA 11958 (1-987)
Hutchinson, W. G.
Studies on pure culture methods of testing fungus deterioration of textiles. Oct 1945.
94p charts, photos, tabs. MI \$1.00 Ph \$7.00.
- OSRD 5690 PBL 33996 (2-870)
Hutchinson, W.G., and others
The tropical deterioration testing station at Barro Colorado Island. Oct 1945.
27p photos. MI \$1.00 Ph \$2.00.
See also PB 16451
- OSRD 5691 PBL 11954 (1-756)
Johns Hopkins University
The effect of moisture and fungus on electrical insulating materials. Oct 1945.
22p MI \$1.50 Ph \$2.00.
- OSRD 5692 PBL 11953 (1-849)
Luce, R.H., and Stoker, W. C.
Fungus growth on hookup wire. Oct 1945.
17p MI \$1.50 Ph \$2.00.
- OSRD 5693 PBL 21987 (1-1418)
Bartholomew, E.L., and others
Examination of enemy material (OD-113; AC-77; M-119): Metallurgical investigation of a Japanese 75 mm. regimental gun. Progress report 204, Jul 31, 1945. Sep 1945.
25p photos, tables, graphs.
MI \$1.50 Ph \$2.00.
- OSRD 5710 PBA 15637 (1-983)
Johnstone, H.F., and others
Some theoretical aspects of the behavior of DDT aerosols dispersed from aircraft. (Progress report) Sep 1945.
48p tabs, graphs. MI \$1.50 Ph \$4.00.
- OSRD 5711 PBL 31207 (2-608)
Morgan, Hyles
Design and installation of E13-13 flame gun and equipment in M4A1 tank. Final report. Sep 1945.
88p charts, diagrs, drawings.
MI \$2.00 Ph \$6.00.
- OSRD 5712 PBL 21985 (1-1492)
Grenell, L. H., and others
Examination of enemy material (OD-113) (AC-77) (M-119): Metallurgical examination of German "Panther" (Mark V) tank parts. Progress report 203, Aug 8, 1945. Sep 1945.
24p diagrs, photos. MI \$1.50 Ph \$2.00.
- OSRD 5713 PBL 21983 (1-1496)
Grenell, L. H., and others
Examination of enemy material: (OD-113) (AC-77) (M-119). Metallurgical examination of Japanese 105 mm. H.E. Projectile. Progress report 209, Aug 10, 1945. Sep 1945.
8p table, photos. MI \$1.50 Ph \$1.00.
- OSRD 5714 PBL 21982 (1-1496)
Grenell, L. H., and others
Examination of enemy material: (OD-113) (AC-77) (M-119). Metallurgical examination of Japanese 47 mm. C/R H.E. U/F shell for model 1 A/T gun. Progress report 210, Aug 11, 1945. Sep 1945.
8p tables, photos. MI \$1.50 Ph \$1.00.
- OSRD 5715 PBL 21852 (1-1493)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of a Japanese C/R 20 mm. Hotchkiss H.E. shell for model 98 A.A. gun. Progress report 211, Aug 13, 1945. Sep 1945.
8p photos, tables. MI \$1.50 Ph \$1.00.
- OSRD 5716 PBL 21886 (1-1418)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of a Japanese 20 cm. rocket. Progress report 214, Aug 24, 1945. Sep 1945.
10p photos. MI \$1.50 Ph \$1.00.
- OSRD 5717 PBL 21885 (1-1491)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of a German aircraft torpedo and warhead. Progress report 215, Aug 18, 1945.
18p photos, tables. MI \$1.50 Ph \$2.00.

- OSRD 5723 PBL 21887 (1-1418)
Dunleavy, J. G., and others
Examination of enemy material (00-113) (AC-77) (M-119). Metallurgical examination of a Japanese magnetic antitank mine and fuze. Progress report 213, Aug 24, 1945. Sep 1945.
9p photos. MI \$1.50 Ph \$1.00.
Dup Series PB 24880.
- OSRD 5724 PBL 21980 (1-1417)
Grenell, L. H., and others
Examination of enemy material (00-133; AC-77; M-119). Metallurgical examination of German 75 mm. Pak 40 antitank gun carriage. Progress report 207, Aug 18, 1945. Sep 1945.
28p photos, drawings, tables. MI \$1.50 Ph \$2.00.
- OSRD 5725 PBL 21984 (1-1419)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of Japanese 75 mm. anti-aircraft M. E. shell with fuze. Progress report 208, Aug 8, 1945. Sep 1945.
9p photos. MI \$1.50 Ph \$1.00.
- OSRD 5726 PBL 21986 (1-1403)
Grenell, L. H., and others
Examination of enemy material (00-113 AC-77; M-119). Examination of German oxygen valve and German and Japanese oxygen valve seats. Progress report 202, Aug 14, 1945. Sep 1945.
7p photo. MI \$1.50 Ph \$1.00.
- OSRD 5727 PBL 21882 (1-1491)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of a German M. G. 34 anti-aircraft tripod. Progress report 218, Aug 18, 1945. Sep 1945.
7p photos. MI \$1.50 Ph \$1.00.
- OSRD 5729 PBA 32209 (2-859)
Laher, Victor K., and others
Formulas utilizing DDT concentrate and/or Diesel oil for use in Army and Navy insecticidal aerosol generators (with notes on adult Muscoid fly toxicity). Progress report, Part 1, May 13, 1945; Part 2, Aug 18, 1945. Aug 1945.
23p photos, diagra. MI \$1.00 Ph \$2.00.
- OSRD 5730 PBL 15636 (1-1061)
Brescia, Frank, and Wilson, Irwin
Reports on the use in the South Pacific of the Navy screening smoke generator (M374) converted to an insecticidal aerosol generator according to the Hochberg-Laher principle; Period covered, October 12, 1944 to April 27, 1945. May 1945.
72p photos. MI \$1.00 Ph \$5.00.
- OSRD 5731 PBA 50828 (5-659)
Laher, Victor K., and others
Salt marsh and anopheline mosquito field control tests, with the Hochberg-Laher insecticidal generator, using oil-DDT aerosols. Progress report. 3p. 1945.
72p graphs, tables. MI \$2.00 Ph \$5.00.
- OSRD 5732 PBA 31958 (2-810)
Silverman, Leslie, and others
Fundamental factors in the design of protective respiratory equipment. Inspiratory and expiratory air flow measurements on human subjects with and without resistance at several work rates. Final report, Aug 1, 1945. Sep 1945.
38p. MI \$1.00 Ph \$3.00.
- OSRD 5738 PBL 33192 (3-54)
Stoker, J. J., ed.
Theoretical studies concerning the hydro-pulse (Ideal mechanical performance characteristics). Jul 1945.
148p graphs, drawing. MI \$3.00 Ph \$10.00.
- OSRD 5757 PBL 5215 (1-437)
Knapp, Robert T.
Force tests of concrete practice bombs, M38A2 practice bomb, AM-M43 G. P. 500 lb. bomb, AM-M56 L. C. 4,000 lb. bomb. 1945.
3p illus. Ph \$3.00 MI \$1.50.
- OSRD 5785 PBL 4021 (1-405)
Rogers, M. H., and others
Evaluation of methods of training in estimating a fixed opening range. 1946.
59p Ph \$4.00 MI \$1.00.
- OSRD 5786 PBL 12155 (1-824)
Lindale, Donald B.
Final report in summary of work on the selection and training of radar operators. Sep 1945.
27p MI \$1.50 Ph \$3.00.
- OSRD 5787 PBL 16448 (1-1199)
Pittsburgh University
Tropical deterioration in optical instruments. Apr 1945.
24p MI \$1.50 Ph \$2.00.
- OSRD 5775 PBL 34773 (3-286)
Nickman, C. N.
Rocket target developed for the Army Ordnance department. Final report. Dec 1945.
35p diagra, graphs, photos. MI \$1.00 Ph \$3.00.
- OSRD 5777 PBL 34761 (3-257)
Osborne, D. M., and Weissmann, B.
Improvement of components for 4.5-in. rocket M8. Final report. Dec 1945.
130p diagra, graphs, photos, tables. MI \$3.00 Ph \$10.00.
- OSRD 5813 PBL 34760 (3-257)
Newton, R. R.
Spiral launching of 4.5-in. rockets. Final report, Dec 1945.
36p graphs, photos, tables. MI \$1.00 Ph \$3.00.
- OSRD 5815 PBL 32219 (3-284)
Bonner, L. G., and Avery, M. H.
The jet-assisted take-off unit. Final report, Jan 30-May 15, 1945. Dec 1945.
100p photos, diagra, tables. MI \$2.00 Ph \$7.00.
- OSRD 5817 PBL 63645 (5-96)
Beek, John, Jr., and others
Studies of radiation phenomena in rockets. Final report, series F, No. 2. Jun 1945.
102p graphs, tables. MI \$3.00 Ph \$7.00.
- OSRD 5825 PBL 43052 (3-819)
Harmer, Nancy, and McClure, F. T.
The reduced specific impulse of ideal gases. Final report. Jan 1946.
28p graphs, tables. MI \$1.00 Ph \$2.00.
- OSRD 5843 PBL 58203 (4-1093)
Alexander, M. E.
Manufacture of wire strain gages for the measurement of thrust as applied to rocket research. Nov 1945.
29p photos, diagra. MI \$1.00 Ph \$2.00.
- OSRD 5846 PBL 58205 (4-955)
Alexander, M. E.
Standard automatic calibrator for A-C bridge and amplifiers. Nov 1945.
17p photos, diagra, tables. MI \$1.00 Ph \$2.00.
- OSRD 5847 PBL 50829 (4-585)
Shulman, S., and Barber, M. H.
Electronic blastmeter, Final report, series J, No. 2.1. Nov 1945.
36p diagra, graphs, photos. MI \$1.00 Ph \$3.00.
- OSRD 5849 PBL 34763 (3-267)
Spaulding, M. P., and others
X-Ray photography of burning rocket propellants. Final report. Dec 1945.
14p diagra, photos. MI \$1.00 Ph \$1.00.
- OSRD 5853 PBL 34769 (3-265)
Donin, M. H., and Donovan, J. J.
Captured enemy propellants. Final report. Dec 1945.
56p diagra, graphs, photos. MI \$2.00 Ph \$4.00.
- OSRD 5856 PBL 58201 (4-1093)
Alexander, M. E.
Manufacture of wire strain gages for the measurement of pressure as applied to rocket research. Dec 1945.
32p photos, diagra. MI \$1.00 Ph \$3.00.
- OSRD 5857 PBL 50827 (4-584)
Alexander, M. E.
A-C bridge and preamplifier for strain-gage measurement of pressure and thrust. Final report, Series J, No. 1.3. Dec 1945.
17p diagra, photos. MI \$1.00 Ph \$2.00.
- OSRD 5858 PBL 58200 (4-1066)
Alexander, M. E.
Two-channel ballistics camera. Dec 1945.
21p photos, diagra, tables. MI \$1.00 Ph \$2.00.
- OSRD 5859 PBL 34771 (3-245)
Golden, S., and Lathrop, C. H.
Apparatus for the recording of pressure versus Pdt. Final report. Dec 1945.
35p diagra, photos. MI \$1.00 Ph \$3.00.
- OSRD 5860 PBL 68915 (5-779)
Hunt, R. E., and Avery, M. H.
Bourdon system for pressure measurement. Final report. Dec 1945.
24p photos, drawings, graphs. MI \$1.00 Ph \$2.00.
- OSRD 5861 PBL 11430 (1-904)
Rosser, J. Barkely
Theory and application of

$$\int_0^z e^{-x^2} dx \text{ and } \int_0^z e^{-p^2 y^2} dy \int_0^y e^{-x^2} dx$$
Part 1. Methods of computation. Series B. Final report. Nov 1945.
223p MI \$2.50 Ph \$15.00.

- OSRD 5862 PBL 58202 (4-1176)
Lathrop, C. M., and Alexander, H. E.
Calibration equipment for pressure and thrust wire strain gages. Nov 1945.
30p photos, diagrs, tables, graphs.
MI \$1.00 Ph \$2.00.
- OSRD 5867 PBL 34762 (2-865)
Kershner, R. E.
Powder-driven post-hole digger. Final report. Dec 1945.
15p drawing, photo, table. MI \$1.00 Ph \$1.00.
- OSRD 5868 PBL 34765 (2-876)
Alexander, H. E.
High-speed temperature-time recorders employing an electronic inverter. Final report. Nov 1945.
18p diagrs. MI \$1.00 Ph \$2.00.
- OSRD 5869 PBL 58199 (4-955)
Alexander, H. E.
Standard frequency oscillators, tuning fork type. Nov 1945.
25p photos, diagrs. MI \$1.00 Ph \$2.00.
- OSRD 5870 PBL 34768 (3-244)
Alexander, H. E.
Audible null indicator for 15,000-cycle/sec A-C bridge equipment. Final report. Nov 1945.
7p diagr, photos. MI \$1.00 Ph \$1.00.
- OSRD 5871 PBL 58206 (4-1175)
Goff, Milton R.
Application of the optical lever principle to following projection tip-off and yaw motions during early burning of rockets. Feb 1946.
49p photos, drawings. MI \$1.00 Ph \$4.00.
- OSRD 5872 PBL 58204 (4-1063)
McClure, F. T., and others
Drag of the propellant gases on the powder charge in rockets. Feb 1946.
32p photos, diagrs, tables, graphs.
MI \$1.00 Ph \$3.00.
- OSRD 5884 PBL 34770 (3-286)
Gross, G. L., and Rosser, J. B.
Exterior ballistics of the cable bomb. Final report. Jan 1946.
32p MI \$1.00 Ph \$3.00.
- OSRD 5886 PBL 68912 (5-520)
Beck, John, Jr., and others
Some problems of heat transfer in rockets. Final report. May 1946.
30p graphs, tables. MI \$1.00 Ph \$3.00.
- OSRD 5888 PBL 34772 (3-286)
Harrington, M. J.
Flight ballistics involved in the use of rocket-towed devices. Final report. Oct 1945.
59p diagrs, graphs, photos, tables.
MI \$2.00 Ph \$4.00.
- OSRD 5893 PBL 32220 (3-194)
Beck, J. Jr., and Kincaid, J. F.
Investigation of fiberglass laminates as materials for rocket motors. Final report, Apr 15-Nov 20, 1945. Dec 1945.
27p diagrs, photos. MI \$1.00 Ph \$2.00.
- OSRD 5898 PBL 15844 (1-1409)
Paschke, V., and others
Improvement in gun steel ingot practice (00-34-3): Part III: Solidification of steel ingots. Final report, Jun 30, 1945. Sep 1945.
89p curves, tables. MI \$1.00 Ph \$7.00.
- OSRD 5921 PBL 28698 (2-359)
Quigley, J. Leslie
0.1 mil recording phototheodolite. Final report. Dec 1945.
138p curves, diagrs, drawings, photos.
MI \$3.00 Ph \$10.00.
- OSRD 5925 PBL 4020 (1-446)
Wickens, D. D., and others
Manual for instruction on mirror range estimation trainer device SC-4 (equipped with Mar 14 sight reticle) 1945.
25p Ph \$1.00 MI \$5.00.
- OSRD 5926 PBL 5080 (1-1171)
Austin, C. R., and Gillett, H. W.
Examination of Enemy Material (00-113) (AC-77) (N-119). Metallurgical Examination of German Arc-Welding Electrodes. Progress report, Aug 1945. Sep 1945.
6p MI \$5.00 Ph \$1.00.
- OSRD 5927 PBL 8613 (1-804)
Gelsman, T. A.
Oxygen carrying metallic complexes of the "Salcomine" type; to Jun 30, 1945. 1945.
139p illus. MI \$1.50 Ph \$10.00.
- OSRD 5928 PBL 8611 (1-759)
Air Reduction Company
Oxygen processes. 1945.
47p MI \$5.00 Ph \$4.00.
- OSRD 5935 PBL 15841 (1-1357)
Mehl, R. F., and others
Improvement in gun steel ingot practice (00-34-3): Final report. Part IV: Firing tests on seamless gun tubes with bore defects. Jun 15, 1945. Sep 1945.
44p photos. MI \$5.00 Ph \$3.00.
- OSRD 5937 PBL 20289 (2-192)
Smith, K. U.
A graphical recorder for synchronous linear registration of several mechanical movements. Sep 1945.
30p diagrs, photos. MI \$5.00 Ph \$2.00.
- OSRD 5939 PBL 21131 (none)
Stephens, Olin J., II
Final report on line disc propeller work done under OSRD contract OEmar-154, Sparkman and Stephens, Inc., Job No. 467. Jun 1945.
2p MI \$5.00 Ph \$1.00.
- OSRD 5940 PBL 25400 (2-230)
Stephens, Olin J., II
Special trailer hitch. Final report. Jun 1945.
3p MI \$1.00 Ph \$1.00.
- OSRD 5941 PBL 21130 (none)
Stephens, Olin J., II
Final report on proposed booster propelled landing boat under OSRD contract OEmar-154, Sparkman and Stephens, Job No. 572. Jun 1945.
2p MI \$5.00 Ph \$1.00.
- OSRD 5942 PBL 25399 (2-302)
Stephens, Olin J., II
Final report on project "Snake." Jun 1945.
3p MI \$1.00 Ph \$1.00.
- OSRD 5946 PBL 30759 (2-626)
Badger, Richard M., and others
Investigation of molecular weights and molecular weight distribution of nitrocellulose. Degradation of nitrocellulose in smokeless powder. Viscosity, osmometry, and light scattering studies. Progress report. Nov 1945.
85p diagrs, graphs, tables.
MI \$2.00 Ph \$6.00.
- OSRD 5948 PBL 30756 (2-584)
Hardy, John, and Moyes, Richard M.
A capillary-type viscometer for use with solutions containing volatile solvents. Progress report. Oct 1945.
13p tables. MI \$1.00 Ph \$1.00.
- OSRD 5950 PBL 30757 (2-556)
Grossberg, Allan L., and others
Procedures for the estimation of inorganic constituents in double base powders. Progress report Nov 1945.
113p diagrs, graphs. MI \$3.00 Ph \$8.00.
- OSRD 5952 PBL 30758 (2-627)
Trueblood, Kenneth H.
Chromatographic studies of smokeless powder and related substances. III. Progress report. Nov 1945.
88p diagr. MI \$2.00 Ph \$6.00.
- OSRD 5974 PBL 30760 (2-634)
Wilcox, Philip E.
New and improved synthesis of miscellaneous organic compounds. Progress report. Nov 1945.
40p MI \$1.00 Ph \$3.00.
- OSRD 5977 PBL 33194 (3-11)
Salzberg, P. L., and others
Synthesis of arsenical detectors. Progress report, Sep 30, 1945. Dec 1945.
18p tables. MI \$1.00 Ph \$2.00.
- OSRD 5978 PBL 27399 (2-554)
Salzberg, P. L., and others
Analogues and derivatives of BAL. Progress report to Sep 30, 1945. Jan 1946.
25p tables, graph. MI \$1.00 Ph \$2.00.
- OSRD 5979 PBL 34802 (3-7)
Salzberg, P. L., and others
Protective and therapeutic agents for war gases; therapeutic agents for mustard and nitrogen mustards. II. Progress report, Sep 30, 1945. Jan 1946.
55p tables, graphs. MI \$2.00 Ph \$4.00.
- OSRD 5981 See OSRD 4760.
- OSRD 5991 PBL 27381 (2-418)
Becker, J. A., and others
Development and operating characteristics of thermistor bolometers. Final report, Jul 1, 1942, to Oct 31, 1945. Oct 1945.
179p diagrs, drawings, graphs, photos, tables. MI \$4.00 Ph \$12.00.
- OSRD 5996 PBL 27389 (2-358)
Fairbanks, A. F.
Adaptation of the type 10 flash lamp to the DeBrie camera. Report, Feb to Sep 1944. Oct 1945.
18p diagrs. MI \$1.00 Ph \$2.00.
- OSRD 5997 PBL 27354 (2-571)
Cashman, R. J.
Development of stable thallous sulfide photoconductive cells for detection of near infrared radiation. Final report, Dec 1941 to Oct 1945. Oct 1945.
83p diagrs, graphs. MI \$2.00 Ph \$6.00.

- OSRD 6003 PBL 27355 (2-404)
Engstrom, Ralph W., and Glover, Alan M.
Development of methods for manufacturing the type B thalofide cell. Final report, Apr 16 to Oct 31, 1945. Oct 1945.
38p graphs, photos. MI \$1.00 Ph \$3.00.
- OSRD 6005 PBL 50799 (4-870)
Coleman, Howard S., and Harding, Samuel W.
A description of the kinetic definition chart (K.D.C.) apparatus and its uses. Oct 1945.
67p photos, diagrs, graphs, tables. MI \$2.00 Ph \$5.00.
- OSRD 6006 PBL 30786 (2-535)
Chapman, Seville
The development of photoelectric control apparatus for high-speed anti-glare shutter to protect night vision of pilots from enemy flares. Final report. Sep 1945.
25p diagr. MI \$1.00 Ph \$2.00.
- OSRD 6008 PBL 21888 (1-1434)
Grenell, L. H., and others
Examination of enemy material: Metallurgical examination of Japanese Kasei-21 aircraft engine No. 2189. Progress report 212, Aug 27, 1945. Oct 1945.
42p photos. MI \$.50 Ph \$3.00.
- OSRD 6009 PBL 21834 (1-1433)
Bartholomew, E. L., Jr., and others
Examination of enemy material: Metallurgical investigation of Japanese 81 mm. mortars. Progress report 216, Aug 31, 1945. Sep 1945.
17p photos. MI \$.50 Ph \$2.00.
- OSRD 6010 PBL 21883 (1-1433)
Bartholomew, E. L., Jr., and others
Examination of enemy material: Metallurgical investigation of a Japanese 15 mm. howitzer. Progress report 217, Aug 31, 1945. Sep 1945.
30p drawings, graphs, photos, tables. MI \$.50 Ph \$2.00.
- OSRD 6012 PBL 4236 (1-321)
Standard Oil Development Company
Development and field use of E7-7 mechanized flame thrower. 1945.
26p illus. Ph \$2.00 MI \$.50.
- OSRD 6014 PBL 4191 (1-442)
Standard Oil Development Company
Development of mobile servicing equipment for mechanized flame throwers. 1945.
40p illus. MI \$.50 Ph \$4.00.
- OSRD 6015 PBL 28629 (2-296)
Croft, H. O., and others
Design of mechanized flame thrower in M4A3 tank retaining 76 mm. gun. Final report. Sep 1945.
79p drawings, photos. MI \$2.00 Ph \$6.00.
- OSRD 6018 PBL 28522 (2-613)
Harvard University. Optical Research Laboratory
Spherically symmetrical lenses and associated equipment for wide angle aerial photography. Nov 1945.
118p MI \$3.00 Ph \$8.00.
See also PB 28639.
- OSRD 6017 PBL 63654 (5-305)
Harvard University. Optical Research Laboratory
Design and development of an automatically focusing 40-inch f/5.0 distortionless telephoto and related lenses for high altitude aerial reconnaissance. Dec 1945.
250p photos, drawings, tables. MI \$6.00 Ph \$18.00.
A rectograph and viewer are included which will not reproduce well.
- OSRD 6018 PBL 63656 (5-305)
Harvard University. Optical Research Laboratory
Design and development of several types of 7-inch f/2.5 lenses for night photography. Dec 1945.
62p photos, drawings. MI \$2.00 Ph \$5.00.
- OSRD 6019 PBL 63655 (5-305)
Harvard University. Optical Research Laboratory
Design and development of an 100-inch f/10 anastigmat for aerial reconnaissance at extreme altitudes. Dec 1945.
34p graphs, tables. MI \$1.00 Ph \$3.00.
- OSRD 6020 PBL 28693 (2-304)
Dunham, Theodore, Jr.
Report on apochromatic photographic aerial lenses and other optical instruments making use of synthetic fluorite. Dec 1945.
92p diagrs, graphs, photos, tables. MI \$2.00 Ph \$7.00.
- OSRD 6021 PBL 28694 (2-304)
Dunham, Theodore, Jr.
Report on design and development of lenses for rectification of Metrogen high obliques. Dec 1945.
56p drawings, graphs, photos, tables. MI \$2.00 Ph \$4.00.
- OSRD 6022 PBL 51030 (4-973)
Harvard University. Optical Research Laboratory
Report on development of an aircraft periscope (Mark 35, model 0), and of an experimental range finder for anti-submarine aerial patrol planes. Dec 1945.
28p photos, diagrs, tables. MI \$1.00 Ph \$2.00.
See also PB 28523 and PB 16447.
- OSRD 6024 PBL 28692 (2-304)
Dunham, Theodore, Jr.
Report on a device for testing the flatness of film in the A-5 and A-7 magazines under service conditions. Dec 1945.
12p drawings, photo. MI \$1.00 Ph \$1.00.
- OSRD 6025 PBL 30784 (2-613)
Harvard University. Optical Research Laboratory
Design and development of a 36-inch f/8.0 telephoto for the K-18 camera. Dec 1945.
71p tables, photos, drawings. MI \$2.00 Ph \$5.00.
- OSRD 6027 PBL 63653 (5-305)
Harvard University. Optical Research Laboratory
Miscellaneous projects for instructional and laboratory purposes. Dec 1945.
45p photo, drawings, tables. MI \$1.00 Ph \$3.00.
- OSRD 6028 PBL 63657 (5-305)
Harvard University. Optical Research Laboratory
Quantitative studies and observations of factors limiting resolution of aerial photographs. Part I: Flight data and test equipment. Dec 1945.
254p photos, diagrs, drawings, graphs, tables. MI \$6.00 Ph \$17.00.
- OSRD 6030 PBL 51029 (4-974)
Rochester, University. Institute of Optics
Wide field F/1 camera lens. Sep 1945.
19p photos, drawings, graphs. MI \$1.00 Ph \$2.00.
- OSRD 6031 PBL 40540 (3-423)
Rochester, University. Institute of Optics
Tank periscope binocular (T-9). Sep 1945.
24p photos, drawings. MI \$1.00 Ph \$2.00.
- OSRD 6032 PBL 63658 (5-306)
Rochester, University. Institute of Optics
Development of special reflex gun sights. Sep 1945.
55p photos, drawings, graphs. MI \$2.00 Ph \$4.00.
- OSRD 6033 PBL 63652 (5-306)
Rochester, University. Institute of Optics
Wide field telescopes. Oct 1945.
38p photos, drawings, graphs. MI \$1.00 Ph \$3.00.
- OSRD 6034 PBL 51027 (4-974)
Rochester, University. Institute of Optics
Anti-oscillation mount tests. Oct 1945.
32p photos, graphs. MI \$1.00 Ph \$3.00.
See also PB 28603 and PB 28635.
- OSRD 6036 PBL 51028 (4-1066)
Rochester, University. Institute of Optics
Anti-oscillation mounted high-power telescopes. Oct 1945.
10p photos, drawing. MI \$1.00 Ph \$1.00.
- OSRD 6037 PBL 63651 (5-306)
Rochester, University. Institute of Optics
P-80 periscope design. Oct 1945.
8p drawings, tables. MI \$1.00 Ph \$1.00.
- OSRD 6039 PBL 30789 (2-536)
Singleton, Robert
Test of rectification and plotting of a pair of high oblique photographs. Oct 1945.
40p photos, drawing. MI \$1.00 Ph \$3.00.
- OSRD 6042 PBL 5920 (1-1175)
Beckman, Arnold O., and others
The stainless-steel propane injector; Progress report to Feb 28, 1945. Sep 1945.
15p diagrs, graphs. MI \$.50 Ph \$1.00.
- OSRD 6043 PBA 5921 (1-532)
Beckman, Arnold O., and others
Determination of carbon monoxide in air, to Feb 28, 1945. 1945.
111p illus. MI \$1.50 Ph \$8.00.
- OSRD 6044 PBL 5947 (1-452)
Beckman, Arnold O., and others
An instrument for the continuous automatic recording of H concentrations in air. 1945.
39p illus. MI \$.50 Ph \$3.00.
- OSRD 6045 PBL 5923 (1-379)
Briglio, A., Jr., and others
A recording field sight. 1945.
91p illus. MI \$1.00 Ph \$7.00.
- OSRD 6046 PBL 5924 (1-380)
Farrington, P. S., and others
A syringe microburet. 1945.
40p illus. Ph \$3.00 MI \$.50.

- OSRD 6047 PBL 5925 (1-312)
Briglio, A. Jr., and others
A semivariable air pump. 1945.
123p Ph \$9.00 MI \$1.50.
- OSRD 6048 PBL 5926 (1-471)
Sease, John W.
The electrolytic titration of H₂ using polarized platinum indicator electrodes. 1945.
51p illus. Ph \$4.00 MI \$1.00.
- OSRD 6051 PBA 5922 (1-508)
Williams, Jonathan W.
Summary report on synthesis of compounds for studies of lubricants and hydraulic fluids, to July 1, 1945. 1945.
29p Ph \$2.00 MI \$.50.
- OSRD 6052 PBL 8601 (1-605)
Holst, Karl A.
Production of salcomine and related compounds, to September 4, 1945. 1945.
28p MI \$.50 Ph \$2.00.
- OSRD 6054 PBA 24903 (2-625)
Reed, W. E., and others
Preparation of sodium fluoroacetate, compound 1080. Progress report, Sep 30, 1945. Oct 1945.
46p flow chart, diagr. MI \$.50 Ph \$4.00.
- OSRD 6055 PBL 11956 (1-1065)
U. S. Tropical Deterioration Administrative Committee
Prevention of deterioration of optical instruments in the tropics. Oct 1945.
61p MI \$1.00 Ph \$5.00.
- OSRD 6056 PBL 11959 (1-1065)
U. S. Tropical Deterioration Administrative Committee
Methods of testing biological deterioration of service materials. Report. Oct 1945.
68p MI \$1.00 Ph \$5.00.
- OSRD 6059 PBA 5946 (1-452)
Brown, Maldon G.
Cyclonic analyzer for particulate sampling. 1945.
8p illus. MI \$.50 Ph \$1.00.
- OSRD 6061 PBA 5946 (1-470)
Brown, Maldon G., and others
Estimation of small quantities of DOT by the phosgene method, to September, 1945. 1945.
14p illus. MI \$.50 Ph \$1.00.
- OSRD 6067 PBL 11967 (1-678)
Brown, A. E.
The problem of fungal growth on synthetic resins, plastics and plasticizers. Oct 1945.
54p MI \$1.00 Ph \$4.00.
- OSRD 6071 PBL 20184 (1-1345)
Curtis, J. A., and Lucks, C. F.
Test methods of the Materials Laboratory, Engineering Division, Air Technical Service Command, Wright Field, Dayton, Ohio: Advisory report, Part III, Routine chemical analysis methods of the Physics Branch. Oct 1945.
83p photos, diagr. MI \$1.00 Ph \$5.00.
- OSRD 6072 PBA 20185 (1-1328)
Lucks, C. F.
Test methods of the Materials Laboratory Engineering Division, Air Technical Service Command, Wright Field, Dayton, Ohio: Advisory report, Part IV, Test methods of the Wood and Glue Branch. Oct 1945.
38p photos, drawings. MI \$.50 Ph \$3.00.
- OSRD 6073 PBL 19937 (1-1344)
Banta, M. M., and others
Investigation of metallurgical quality of steels used for hull construction (Ms-255): Progress report, Jul 15, 1945. Oct 1945.
90p MI \$1.00 Ph \$5.00.
- OSRD 6074 PBL 20197 (1-1377)
Combs, E. L., and Lucks, C. F.
Test methods of the Materials Laboratory, Engineering Division, Air Technical Service Command, Wright Field, Dayton, Ohio: Advisory report, Part V, Electro-chemical methods of the Chemical Branch. Oct 1945.
40p photos, drawings. MI \$.50 Ph \$3.00.
- OSRD 6075 PBL 19936 (1-1344)
Banta, M. M., and others
Investigation of metallurgical quality of steels used for hull construction: Final report, Aug 15, 1945. Oct 1945.
43p MI \$.50 Ph \$3.00.
- OSRD 6086 PBA 27395 (2-630)
Adkins, Homer, and others
The preparation of miscellaneous chemical warfare agents. Progress report to Jun 1945. Dec 1945.
37p MI \$1.00 Ph \$3.00.
- OSRD 6088 PBA 15642 (1-955)
Grinnell, S. W.
Some instruments used by Division 10, NDRC at Dugway Proving Ground for the continuous recording of micrometeorological conditions. (Progress report) October 1, 1945. Oct 1945.
54p diagr. MI \$1.00 Ph \$4.00.
- OSRD 6098 PBL 30783 (2-616)
Wagman, Irving H.
A study of pupil size at low levels of illumination. Oct 1945.
23p graphs, photos, tables.
MI \$1.00 Ph \$2.00.
- OSRD 6099 PBL 66206 (5-304)
Hartline, H. W., and others
Physiological factors determining the performance of night binoculars. Oct 1945.
100p MI. \$2.00 Ph \$7.00.
- OSRD 6100 PBL 28520 (2-511)
Aero Service Corp.
Manual on the pinhole rectifying camera, Oct 1945.
13p photos, sketches. MI \$1.00 Ph \$1.00.
- OSRD 6101 PBL 28521 (2-511)
Aero Service Corp.
Manual on the variable ratio printer, Oct 1945.
24p drawings, photos. MI \$1.00 Ph \$2.00.
- OSRD 6102 PBL 40544 (3-493)
Aero Service Corp.
Report on airplane photographic tests of lenses, film and filters for oblique photography suitable for mapping purposes. Oct 1945.
12p table. MI \$1.00 Ph \$1.00.
- OSRD 6103 PBL 40542 (3-493)
Coleman, Howard S.
Report on optical inspection. Oct 1945.
232p photos, drawings, diagr, tables.
MI \$5.00 Ph \$16.00.
- OSRD 6104 PBL 16446 (1-1043)
Coleman, Howard S., and Coleman, Madeline F.
The NDRC optical inspection project at the Pennsylvania State College for the period of October 1943 to November 1945. Oct 1945.
24p MI \$.50 Ph \$2.00.
- OSRD 6105 PBL 16461 (1-1043)
Coleman, Howard S.
The dioptrimeter and its use in the inspection of optical instruments. Oct 1945.
29p diagr, photos. MI \$.50 Ph \$2.00.
- OSRD 6106 PBL 16462 (1-1012)
Coleman, Howard S., and Clark, David G.
The Penn State I-I Michelson-Twyman interferometer and its use in determining conformance with design and in quality control of lenses, prisms, and telescopic systems. Oct 1945.
68p photos, diagr. MI \$1.00 Ph \$5.00.
- OSRD 6107 PBL 40541 (3-493)
Coleman, Howard S., and Clark, David G.
Photoelectric and photographic procedures for the evaluation of optical instrument design. Oct 1945.
32p photos, diagr, graphs.
MI \$1.00 Ph \$3.00.
- OSRD 6108 PBL 43058 (3-658)
Coleman, Howard S., and Harding, Samuel W.
Notes on the scattering of light in optical fire control instruments. Oct 1945.
56p photos, diagr, graphs.
MI \$2.00 Ph \$4.00.
- OSRD 6110 PBL 13289 (1-823)
Conrad, Herbert S.
Summary report on research and development of the Navy's aptitude testing program. Final report (September 1, 1942-October 31, 1945). Oct 1945.
79p MI \$1.00 Ph \$6.00.
- OSRD 6112 PBL 39577 (3-705)
Cunningham, W. J., and Licklider, J.C.R.
A two-carrier system for radio communication. Oct 1945.
20p photos, diagr, graphs.
MI \$1.00 Ph \$2.00.
- OSRD 6113 PBL 22851 (2-186)
Shaw, W. A.
Measurements of insulation and sensitivity of service headsets. Oct 1945.
131p diagr, graphs, tables.
MI \$1.50 Ph \$9.00.
- OSRD 6114 PBL 4019 (1-555)
Voss, H. A., and Wickens, D. D.
A comparison of free and stadiametric estimation of opening range. 1945.
34p MI \$.50 Ph \$3.00.
- OSRD 6119 PBL 5943 (1-476)
Brown, David H., and Bennett, Edward L.
The collection and separation of samples of persistent agents from contaminated materials other than air. 1945.
89p Ph \$6.00 MI \$1.00.

- OSRD 6122 PBL 32217 (2-743)
Ford, E. A.
Design of a plant for manufacturing and loading plasticized white phosphorus. Progress report. Oct 1945.
175p diagrs. MI \$4.00 Ph \$12.00.
- OSRD 6128 PBL 28700 (2-304)
Miller, Carl W., and Beck, Lloyd H.
The effects of night binocular design features on the visibility of targets at low levels of illumination. Oct 1945.
103p graphs, photos, tables.
MI \$3.00 Ph \$7.00.
For supplement see PB 28701.
- OSRD 6129 PBL 28701 (2-305)
Miller, Carl W., and Beck, Lloyd H.
Summary of experimental data, a supplement to OSRD report No. 6128 entitled: The effects of night binocular design features on the visibility of targets at low levels of illumination. Oct 1945.
169p tables. MI \$4.00 Ph \$12.00.
- OSRD 6132 PBL 32221 (3-195)
Droulard, M. R., and others
Rockets for cast propellants. Final report. Dec 1945.
38p drawings, photos. MI \$1.00 Ph \$3.00.
- OSRD 6134 PBL 28529 (2-885)
Droulard, M. R., and others
Rocket launchers. Final report. Oct 1945.
46p photos, diagrs, tables.
MI \$1.00 Ph \$4.00.
- OSRD 6135 PBL 34779 (2-885)
Droulard, M. R., and others
Rocket flares. Final report. Oct 1945.
28p drawings, photos, tables.
MI \$1.00 Ph \$2.00.
- OSRD 6147 PBL 34787 (2-885)
Droulard, M. R., and others
Rocket powder traps. Final report. Oct 1945.
105p drawings, photos, tables.
MI \$3.00 Ph \$7.00.
- OSRD 6152 PBL 34788 (3-266)
Droulard, M. R., and others
Miscellaneous development of rockets and accessories. Final report. Oct 1945.
131p photos, diagrs, drawings.
MI \$3.00 Ph \$9.00.
- OSRD 6154 PBL 34789 (4-12)
Avella, S. R.
Engineering and material services. Final report. Jan 1946.
23p diagrs, photos. MI \$1.00 Ph \$2.00.
- OSRD 6156 PBL 34791 (2-885)
Dietz, J. M., and others
Launchers and improved components for 4.5 in. rockets. Final report. Feb 1946.
186p drawings, photos. MI \$4.00 Ph \$13.00.
- OSRD 6157 PBL 28527 (2-614)
McNair, F. L., and Reck, F.
Development of ribbon frame camera. Final report. Dec 1945.
27p drawings, photos. MI \$1.00 Ph \$2.00.
- OSRD 6159 PBL 34792 (2-884)
Burns, R.
Powder trapping and the extrusion of rocket powders. Final report. Jan 1946.
50p diagrs, photos, tables.
MI \$1.00 Ph \$4.00.
- OSRD 6160 PBL 28525 (2-518)
Townsend, J. R.
The development, annealing and calibrating of copper target balls. Final report. Jan 1946.
55p photos, drawings, tables.
MI \$2.00 Ph \$4.00.
- OSRD 6161 PBL 28526 (2-879)
Dunlap, K. S.
Development of apparatus for recording pressure versus integral of pressure. Final report. Dec 1945.
23p photos, diagrs. MI \$1.00 Ph \$2.00.
- OSRD 6163 PBL 28524 (2-962)
Garvin, J. S.
Design and production of amplifier calibrators. Final report. Dec 1945.
25p diagrs, photos. MI \$1.00 Ph \$2.00.
- OSRD 6165 PBL 34777 (2-884)
Buch, P. E.
Airborne flame thrower firing circuits. Final report. Jan 1946.
33p drawings, photos. MI \$1.00 Ph \$3.00.
- OSRD 6167 PBL 34778 (2-884)
Buch, P. E.
Tankborne flame thrower firing circuits. Final report. Jan 1946.
24p diagrs, photos. MI \$1.00 Ph \$2.00.
- OSRD 6169 PBL 34790 (2-883)
Baker, M. O., and Pape, M. R.
X-ray diffraction photograph investigations of sheet powder. Final report. Dec 1945.
23p graph. MI \$1.00 Ph \$2.00.
- OSRD 6177 PBL 4458 (1-405)
Rogers, M. H., and others
History and final report of project NR-106, Applied psychology panel. 1946.
24p MI \$1.50 Ph \$2.00.
- OSRD 6179 PBL 22852 (2-87)
Shaw, M. A., and Yates, D. E.
Development of insert tips for use with miniature earphones. Oct 1945.
30p photos, graphs, tables, drawings.
MI \$1.50 Ph \$2.00.
- OSRD 6182 PBL 5942 (1-500)
Moritz, A. R., and Henriques, F. C.
An experimental investigation of the physiological mechanisms concerned in the production of casualties by flame thrower attack, to October 1, 1945. 1945.
27p illus. MI \$1.50 Ph \$2.00.
- OSRD 6183 PBL 5940 (1-379)
Briglio, Anthony, Jr., and others
An automatic recording titrimeter for mustard. 1945.
260p illus. Ph \$18.00 MI \$3.00.
- OSRD 6184 PBL 5951 (1-379)
Brockman, J. A., Jr., and others
Constructional details of certain apparatus required for the laboratory identification of CW agents. 1945.
95p illus. MI \$1.00 Ph \$7.00.
- OSRD 6187 PBL 58229 (4-864)
Gulf Research and Development Co., Pittsburgh
Experimental investigations in connection with high-angle dirigible bombs: RAZON (VB-3) bomb. Progress report, May 1, 1944 to Apr 1, 1945. Apr 1945.
169p tables, graphs, photos, drawings.
MI \$4.00 Ph \$12.00.
See also PB 58228.
- OSRD 6190 PBL 4190 (1-370)
Byfield, A., and others
Flame throwers, incendiaries and their evaluation. 1945.
88p MI \$1.00 Ph \$6.00.
- OSRD 6200 PBL 16445 (1-1389)
Methercot, A. H., Jr., and Huxford, M. S.
Contractor's report on German Lichtspracher 250/130 (Voice transmission on light beam). Oct 1945.
21p diagrs, photos, tables.
MI \$1.50 Ph \$2.00.
- OSRD 6201 PBL 40545 (3-491)
Van Lear, G. A., Jr.
Cloud attenuation studies, Mount Washington, N. H. Final report, Jul 1943-Aug 1944. Oct 1945.
36p photos, diagrs, map, tables.
MI \$1.00 Ph \$3.00.
- OSRD 6202 PBL 58236 (4-1062)
Doll, H. G., and others
Anti-rotational stabilizer. Sep 1945.
27p graphs, diagrs. MI \$1.00 Ph \$2.00.
- OSRD 6204 PBL 19792 (1-1248)
Gensamer, M., and others
Correlation of laboratory tests with full scale ship plate fracture tests (NS-336): Final report.
54p tables, graphs, diagrs.
MI \$1.00 Ph \$4.00.
- OSRD 6205 PBL 19572 (1-1504)
Sachs, George, and others
Correlation of information available on the fabrication of aluminum alloys (Na-126): Final report. Section V, Formability of aluminum alloys for use in military aircraft: Part VII, Experimental strain analysis of bent rectangular shapes. Oct 1945.
52p photos. MI \$1.00 Ph \$4.00.
- OSRD 6208 PBL 5944 (1-470)
Salzberg, P. L., and others
DDT formulations—spreading agents for larvicidal oils on water, to February 1, 1945. 1945.
13p Ph \$1.00 MI \$1.50.
- OSRD 6217 PBL 19788 (1-1509)
Du Pont de Nemours, E. I., and Explosives Dept.
Burnside Laboratory
Thermochemical studies of special propellants. Jan 1946.
25p diagrs, tables. MI \$1.50 Ph \$2.00.
- OSRD 6218 PBL 11968 (1-714)
Offenhausser, William M., Jr., and others
Summary report—subcommittee on photographic equipment and supplies. 1945.
35p MI \$1.50 Ph \$1.00.

- OSRD 6221 PBL 58230 (4-865)
Gulf Research and Development Co., Pittsburgh
Experimental investigations in connection with high-angle dirigible bombs: VB-3 ballistic data. Progress report, Apr 1, 1945 to Sep 1, 1945. Sep 1945.
96p tables, graphs, photos. MI \$2.00 Ph \$7.00.
- OSRD 6224 PBA 5898 (1-633)
Johnston, Harold S., and others
A field instrument for the determination of the rate of vaporization of organic liquids, to Sept. 20, 1945. 1945.
14p illus. Ph \$1.00 MI \$5.00.
- OSRD 6226 PBA 5897 (1-347)
Salzberg, P. L., and others
DDT formulations—solvents of high solution capacity. 1945.
13p Ph \$1.00 MI \$5.00.
- OSRD 6233 PBL 15808 (1-1066)
Bennett, G. K.
Development of Morse Code actuated printer. Report No. 1. Oct 1945.
30p photos. MI \$5.50 Ph \$2.00.
- OSRD 6234 PBL 21115 (1-1484)
McMillen E. L., and Carver, E. K.
The mechanized Gardner mobilometer. Oct 1945.
24p photos, tables. MI \$5.50 Ph \$2.00.
- OSRD 6235 PBL 9393 (1-630)
The Texas Company
Development of 40 lb. oil incendiary bomb, E9. 1945.
253p illus. MI \$3.00 Ph \$17.00.
- OSRD 6236 PBL 28628 (2-436)
Bauer, E. E., and Carver, E. K.
Studies of thickened liquids, and miscellaneous flame thrower problems. Final report. Oct 1945.
13p MI \$1.00 Ph \$1.00.
- OSRD 6237 PBA 8336 (1-627)
Brock, G. C., and Orr, A. G.
Aluminum cresylate from petroleum cresylic acids. 1945.
23p MI \$5.50 Ph \$2.00.
- OSRD 6238 PBL 21110 (1-1403)
Cole, R. H., and others
Electrical instruments for study of underwater explosions and other transient phenomena. Nov 1945.
68p MI \$1.00 Ph \$5.00.
- OSRD 6251 PBL 60930 (4-1051)
Fraenkel, G. K.
Apparatus for the measurement of air-blast pressures by means of piezoelectric gauges. Mar 1946.
229p photos, diagrs. MI \$5.00 Ph \$16.00.
- OSRD 6256 PBL 33262 (2-879)
Frondel, Clifford
Construction of tourmaline gauges for piezoelectric measurement of explosion pressure waves. Jan 1946.
36p photos. MI \$1.00 Ph \$3.00.
- OSRD 6262 PBL 20196 (1-1444)
Lucks, C. F.
Test methods of the Materials Laboratory, Engineering Division, Air Technical Service Command, Wright Field, Dayton, Ohio: Advisory report, Part VI, Physical test methods of the Physics Branch. Oct 1945.
60p MI \$1.00 Ph \$5.00.
- OSRD 6263 PBL 20199 (1-1499)
Doan, Gilbert E.
Weldability of steel for hull construction (MS-255): Final report, Aug 31, 1945. Oct 1945.
47p photos, graphs, tables. MI \$5.50 Ph \$4.00.
- OSRD 6264 PBL 20195 (1-1408)
Lucks, C. F.
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31p photos, drawings. MI \$5.50 Ph \$3.00.
- OSRD 6266 PBL 4018 (1-446)
Viteles, M. S., and others
History and final report of Project M-105, Applied Psychology Panel. 1945.
44p MI \$5.50 Ph \$3.00.
- OSRD 6267 PBL 11957 (1-1064)
Shanon, Leland
Handbook of some fungi associated with tropical deterioration. Oct 1945.
85p illus. MI \$1.00 Ph \$7.00.
- OSRD 6269 PBA 5841 (1-477)
Cohen, Barnett
Summary report on "kinetics of the reactions of the sulfur and nitrogen mustards," to September 1, 1945.
61p Ph \$5.00 MI \$1.00.
- OSRD 6271 PBL 19656 (1-1425)
Smith, Lincoln G.
Photographic investigation of the reflection of plane shocks in air; Final report. Nov 1945.
144p photos, curves. MI \$1.50 Ph \$10.00.
- OSRD 6280 PBL 39572 (3-640)
U. S. Office of Scientific Research and Development
Final reports—Part III, on contract ODMR-1441. Dec 1945.
144p photos, diagrs, charts, curves. MI \$3.00 Ph \$10.00.
- OSRD 6284 PBL 27419 (2-980)
Ling, D. P.
Aerial gunnery and gyro sights: A manual for gunners. Oct 1945.
64p diagrs. MI \$2.00 Ph \$5.00.
- OSRD 6285 PBL 34121 (3-200)
U. S. National Defense Research Committee
On a modified internal adjuster system for stereoscopic rangefinders. Sep 1945.
18p drawings, graphs, tables. MI \$1.00 Ph \$2.00.
- OSRD 6292 PBL 19811 (2-176)
Flynn, I. P., and others
Auditory factors in the discrimination of radio range signals: Collected informal reports (relevant to service control No. MA-108) Dec 1945.
83p diagrs, photos, tables, graphs. MI \$1.00 Ph \$6.00.
- OSRD 6297 PBL 33263 (3-43)
Neumann, J. von, and Taub, A. H.
Flying wind tunnel experiments. Nov 1945.
18p drawings, photos. MI \$1.00 Ph \$2.00.
- OSRD 6299 PBL 50828 (4-401)
Allegany Ballistics Laboratory, Cumberland, Md.
Program of events for press day at ABL; Nov 8, 1945, and memorandum describing laboratory facilities and developments. 1945.
21p chart, photos. MI \$1.00 Ph \$2.00.
- OSRD 6301 PBA 20836 (2-313)
LaTourneau, R. L., and others
Development of an exhaust DDT aerosol generator for the $\frac{1}{2}$ ton, 4 x 4 truck, "Jeep." Nov 1945.
41p MI \$5.50 Ph \$3.00.
- OSRD 6302 PBL 8608 (1-750)
Bliss, H., and Dodge, B. F.
Experimental study of special equipment for use in low temperature cycles for the production of liquid and gaseous oxygen. Final Report to July 1, 1945. 1945.
73p illus. MI \$1.00 Ph \$5.00.
- OSRD 6303 PBL 58239 (5-14)
Silverman, S. R., and others
Tolerance for pure tones and speech in normal and hard-of-hearing ears. Jul 1945.
97p tables, graphs, diagrs. MI \$2.00 Ph \$7.00.
- OSRD 6306 PBL 63635 (5-309)
Stone, A. H.
The aerodynamics of a slightly yawing supersonic cone. Jul 1945.
44p diagrs, graph, tables. MI \$1.00 Ph \$3.00.
- OSRD 6310 PBL 22853 (2-169)
Veneklasen, P. S., and Miller, J.
Microphones, earphone cushions and handsets for special applications. Oct 1945.
107p diagrs, graphs, photos. MI \$1.50 Ph \$8.00.
- OSRD 6311 PBL 22854 (2-165)
Nichols, R. H., Jr., and others
Collected informal reports on the performance of special communication equipment. Oct 1945.
56p tables, graphs. MI \$1.00 Ph \$4.00.
- OSRD 6317 PBL 33261 (2-879)
Lang, H. M., and Silverman, D.
Development of blast-pressure gauges and recording equipment: II. Final report. Nov 1945.
15p diagrs, drawings, tables. MI \$1.00 Ph \$1.00.
- OSRD 6318 PBL 33260 (2-887)
Newmark, N. M., and others
Construction and characteristics of model ammunition storage magazines. Final report. Nov 1945.
27p photos, diagrs, tables. MI \$1.00 Ph \$2.00.
- OSRD 6320 PBL 21113 (1-1403)
Smith, Lincoln G.
A condenser-type FM gauge for blast-pressure measurements. Jan 1946.
19p drawings, diagrs. MI \$5.50 Ph \$2.00.
- OSRD 6321 PBL 43051 (3-715)
Fletcher, J. C., and others
Shock tube, piezoelectric gauges, and recording apparatus. Final report. Feb 1946.
77p MI \$2.00 Ph \$6.00.

- OSRD 6323 PBA 34801 (3-10)
Kaiser, D. W.
Preparation of various types of amides and imidines and an investigation of the chlorinated derivatives thereof. Final report, Feb 7, 1944. Nov 1945.
56p MI \$2.00 Ph \$4.00.
- OSRD 6324 PBL 11955 (1-1064)
U. S. Tropical Deterioration Administrative Committee
The effect of moisture and fungus on electrical and mechanical properties of plastic insulating materials. Final report, Oct 1945.
24p MI \$5.00 Ph \$2.00.
- OSRD 6325 PBM 5948 (1-496)
Anslow, William P., Jr., and others
Summary report on "The systemic pharmacology and pathology of the sulfur and nitrogen mustards," to October 1, 1945. 1945.
151p MI \$2.00 Ph \$11.00.
- OSRD 6330 PBL 58234 (4-980)
Douglas Aircraft Co., Inc., Santa Monica, Calif.
Report on design and development of the ROC 00-1000, serial No. 1 to No. 20. Jun 1945.
380p tables, photos, graphs, drawings, diagrs. MI \$8.00 Ph \$24.00.
- OSRD 6331 PBL 19571 (1-1504)
Sachs, George, and others
Correlation of information available on the fabrication of aluminum alloys (NA-125): Final report Section V, Formability of aluminum alloys for use in military aircraft: Part VIII, Combined bending and tension of rectangular bars. Nov 1945.
48p MI \$5.00 Ph \$4.00.
- OSRD 6332 PBL 19579 (1-1411)
Sachs, George, and others
Correlation of information available on the fabrication of aluminum alloys (NA-125): Final report. Section V, Formability of aluminum alloys for use in military aircraft: Part IX, Bending of T-sections. Nov 1945.
32p photos. MI \$5.00 Ph \$3.00.
- OSRD 6333 PBL 24885 (2-304)
Hill, G. Albert, and others
Apparatus and methods for the study of photo-flash bomb explosions. Final report, Nov 1945.
48p diagrs. graphs, photos. MI \$5.00 Ph \$4.00.
- OSRD 6334 PBA 27400 (2-489)
Salzberg, P. L., and others
DOT formulations—water-dispersible powders. Progress report to Oct 31, 1945. Feb 1946.
89p tables. MI \$2.00 Ph \$6.00.
- OSRD 6335 PBA 27401 (2-489)
Salzberg, P. L., and others
DOT formulations—water-dispersible pastes. Progress report to Jan 31, 1945. Jan 1946.
27p tables. MI \$1.00 Ph \$2.00.
- OSRD 6336 PBA 27402 (2-625)
Salzberg, P. L., and others
DOT formulations—surface-active agents for emulsifiable DOT concentrates. Progress report to Feb 1, 1945. Nov 1945.
18p tables. MI \$1.00 Ph \$2.00.
- OSRD 6337 PBA 27403 (2-401)
Salzberg, P. L., and others
DOT formulations—applications of infrared spectroscopy to DOT. Progress report to Oct 31, 1945. Jan 1946.
21p graphs. MI \$1.00 Ph \$2.00.
- OSRD 6338 PBA 33195 (3-3)
Salzberg, P. L., and others
Miticides—Fixation on cotton fabric. Progress report, Aug 15, 1945. Jan 1946.
19p tables. MI \$1.00 Ph \$2.00.
- OSRD 6339 PBA 27404 (2-391)
Salzberg, P. L., and others
Emulsifiable concentrates for fly and odor control. Progress report to Aug 1, 1945. Dec 1945.
13p MI \$1.00 Ph \$1.00.
- OSRD 6340 PBA 27405 (3-79)
Salzberg, P. L., and Patterson, G. D.
DOT formulations. Final report, Oct 31, 1945. Feb 1946.
25p MI \$1.00 Ph \$2.00.
- OSRD 6341 PBL 15840 (1-1294)
Rouse, Hunter
Part I: Wind-tunnel studies of fog-dispersal methods. Part II: Wind-tunnel studies of gas diffusion in urban districts. Part III: Wind-tunnel studies of air flow over mountainous terrain. Nov 1945.
10p MI \$5.00 Ph \$1.00.
- OSRD 6344 PBA 32212 (2-859)
Rice, R. I.
The development of an exhaust DOT aerosol generator for the Taylorcraft light airplane. Progress report. Nov 1945.
22p photos, diagrs. MI \$1.00 Ph \$2.00.
- OSRD 6345 PBL 20837 (2-79)
Lewis, H. C., and others
A study of the atomization of liquids. Nov 1945.
84p MI \$1.00 Ph \$5.00.
- OSRD 6354 PBL 58231 (4-854)
Gulf Research and Development Co., Pittsburgh
Experimental investigations in connection with high-angle dirigible bomb: Calculated RAZON (VB-3) trajectories. Progress report, Sep 1, 1945 to Oct 15, 1945. Oct 1945.
88p tables, graphs. MI \$2.00 Ph \$6.00.
- OSRD 6356 PBL 28622 (2-432)
Collins, A. S., and others
Development of a portable front-line gas generator for pressurizing portable flame throwers. Final report. Nov 1945.
113p MI \$3.00 Ph \$8.00.
- OSRD 6357 PBA 5949 (1-478)
Hamilton, C. S., and others
Syntheses of benzoquinoline derivatives and certain antimalarial intermediates, to August 31, 1945. 1945.
63p MI \$1.00 Ph \$5.00.
- OSRD 6358 PBL 19657 (1-1544)
Bartik, M. J., and others
Investigations of the measurement of noise: Final report. Oct 1945.
32p MI \$5.00 Ph \$3.00.
- OSRD 6359 See OSRD 4866.
- OSRD 6365 PBL 19944 (1-1345)
Davis, Harmer E., and others
Behaviour of steel under multi-axial stress, as determined by tests of large tubular specimens (ship-plate series): Final report, Aug 1945. Dec 1945.
98p photos, diagrs. MI \$1.00 Ph \$7.00.
- OSRD 6366 PBL 15863 (1-1252)
Miller, O. O., and others
Weldability of commercial armor plates (00-36-2): Development of ferritic weld metal for repair of thick cast armor. Part I—Investigation of thirteen preliminary experimental weld metals. Progress reports, Sep 1945, Dec 1945.
35p MI \$5.00 Ph \$3.00.
- OSRD 6367 PBA 27406 (2-630)
Bartlett, Paul D., and others
The preparation of some organic compounds for testing as insect repellents. Final report, Oct 31, 1945. Dec 1945.
110p tables. MI \$3.00 Ph \$8.00.
- OSRD 6368 PBA 27407 (2-631)
Heaton, C. D., and others
The synthesis of some compounds for testing as insect repellents. Progress report to Sep 30, 1945. Dec 1945.
21p MI \$1.00 Ph \$2.00.
- OSRD 6369 PBA 27408 (2-632)
Newman, Melvin S., and others
The preparation of some compounds for testing as insect repellents. Final report, Oct 31, 1945. Dec 1945.
90p MI \$2.00 Ph \$6.00.
- OSRD 6370 PBA 27409 (2-631)
Drake, Nathan L., and others
The preparation of some compounds for testing as insect repellents. Final report, Oct 31, 1945. Dec 1945.
99p MI \$2.00 Ph \$7.00.
- OSRD 6371 PBA 27410 (2-479)
Adkins, Homer, and others
Some compounds submitted for testing as insect repellents. Progress report to Sep 30, 1945.
56p tables. MI \$2.00 Ph \$4.00.
- OSRD 6376 PBL 22224 (2-745)
Standard Oil Development Co.
Development of flame throwers, service units, and thickened fuels. Summary (final) report. Oct 1945.
179p diagrs, photos, tables.
MI \$4.00 Ph \$12.00.
- OSRD 6379 PBL 58232 (4-865)
Gulf Research and Development Co., Pittsburgh
High-angle dirigible bomb project. Final report, July 1, 1942 to Oct 31, 1945. Oct 1945.
188p tables, drawings, photos.
MI \$4.00 Ph \$12.00.
- OSRD 6380 PBL 19782 (2-29)
Mihalyi, J.
Short-base rangefinders. Nov 1945.
70p diagrs, photos. MI \$1.00 Ph \$5.00.
- OSRD 6382 PBL 20188 (1-1504)
Snelling, William A., and Snelling, M. O.
Direct explosion test for welded armor and ship plate: Part II, Prime and welded plate (MS-255). Final report, Sep 1945. Dec 1945.
41p MI \$5.00 Ph \$3.00.

- OSRD 6383 PBL 20295 (2-63)
Handelman, G. H., and Heller, W. R.
Aerodynamic lead pursuit curves for
overhead attacks. Oct 1945.
82p graphs, charts. MI \$1.00 Ph \$6.00.
- OSRD 6385 PBL 15840 (1-1360)
Wells, Cyril, and Muhl, R. F.
Improvement in wrought gun tubes (00-34-3):
Final report. Part IV: Relation between
transverse reduction of area and performance in
six 37 mm. M6 gun tubes. Jun 1945. Dec 1945.
41p MI \$0.50 Ph \$3.00.
- OSRD 6386 PBL 15838 (1-1357)
Muhl, R. F., and others
Improvement in wrought gun tubes (00-34-3):
Final report. Part VII: Operating character-
istics on specification WYXS-88 and specifica-
tion WYXS-95. Jun 1945. Dec 1945.
35p graphs, tables. MI \$0.50 Ph \$3.00.
- OSRD 6387 PBL 19935 (1-1345)
DeGarmo, E. Paul, and others
Cleavage fracture of ship plate as influenced
by design and metallurgical factors (MS-336):
Part I, Hatch corner specimen tests. Final
report, Mar 16 to Aug 31, 1945. Dec 1945.
91p MI \$1.00 Ph \$7.00.
- OSRD 6388 See OSRD 4866.
- OSRD 6389 PBL 16746
Feild, A. L., and others
Weldability of heat-resisting alloys
(N-102). Final report. Dec 1945.
56p photos. MI \$1.00 Ph \$4.00.
- OSRD 6390 PBA 27396 (2-632)
Jenkins, R. L., and Hardy, E. E.
The preparation of isocyanates, cyanuric
acid and decontaminant 40. Progress report to
Sep 30, 1945. Dec 1945.
6p MI \$1.00 Ph \$1.00.
- OSRD 6393 PBL 43036 (3-856)
Rose, A.
Development of a television pickup tube
greater sensitivity. Final report. Oct 1945.
27p drawings, photos. MI \$1.00 Ph \$2.00.
- OSRD 6424 PBM 27397 (2-547)
Coleman, George H.
Preparation of antimalarial intermediates.
Final report, Sep 8, 1944-Sep 8, 1945. Dec
1945.
28p MI \$1.00 Ph \$2.00.
- OSRD 6427 PBL 16423 (1-1110)
Freeman, J. W., and Cross, H. C.
Heat-resisting metals for gas turbine parts
(N-102): A metallurgical investigation of a
large forged disc of low-carbon N-155 alloy.
Progress report, Aug 4, 1945. Aug 1945.
48p tables, graphs, photos. MI \$0.50 Ph \$4.00.
- OSRD 6428 PBL 32210 (2-660)
Nathan, M. F., and others
Development of oil thermal generator floating
smoke pot, E23. Progress report. Dec 1945.
58p drawings. MI \$2.00 Ph \$4.00.
- OSRD 6433 PBA 27398 (2-556)
Kaplan, L., and others
An investigation of procedures of possible
value for the chemical estimation of the toxic
principle of red squill. Final report, Sep 30,
1945. Dec 1945.
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- OSRD 6442 PBL 6594 (1-591)
New Mexico University. Department of Physics
A study of aerics and weather infor-
mation. 1945.
45p illus. MI \$0.50 Ph \$3.00.
- OSRD 6452 PBL 19934 (1-1345)
Davis, Harmer E., and others
Cleavage fracture of ship plate as
influenced by design and metallurgical fac-
tors (MS-336): Part II, Flat plate tests:
Final report, Aug 1945. Jan 1946.
89p photos, tables. MI \$1.00 Ph \$6.00.
- OSRD 6453 PBL 20192 (1-1443)
Helks, R. E., and Lucks, C. F.
Test methods of the Materials Laboratory,
Engineering Division, Air Technical Service
Command, Wright Field, Dayton, Ohio: Advisory
report, Part VIII, Textile, paper, leather, and
fungicide test methods of the Textile and Rub-
ber Branch. Jan 1946.
110p photos, drawings. MI \$1.50 Ph \$8.00.
- OSRD 6457 PBL 20200 (1-1505)
Wilson, Wilbur M., and others
Cleavage fracture of ship plate as influ-
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Nov 1, 1944 to Aug 31, 1945. Jan 1946.
98p photos, diags, tables, graphs.
MI \$1.00 Ph \$7.00.
- OSRD 6463 PBL 32197 (2-803)
Read, M. T.
Theory, calibration, and use of diaphragm
blast meters. Feb-Dec 1945. Mar 1946.
60p curves, diags, photos.
MI \$2.00 Ph \$4.00.
- OSRD 6469 PBL 63639 (5-212)
Davis, Gordon L.
Penetration of nitrogen into steel rifle bar-
rels as measured by a tracer method. Jan 1946.
25p tables, graphs. MI \$1.00 Ph \$2.00.
- OSRD 6513 PBL 63638 (5-788)
Biberstein, F. A., and others
Static band pressures in 37 mm. projectiles,
II. June 1946.
110p photos, graphs, tables.
MI \$3.00 Ph \$8.00.
- OSRD 6514 PBL 60931 (5-212)
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Static band pressure in 75 mm. projec-
tiles. Jun 1946.
46p graphs, tables. MI \$1.00 Ph \$4.00.
- OSRD 6540 PBL 20194 (1-1325)
Crofton, F. C., and Lucks, C. F.
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Command, Wright Field, Dayton, Ohio: Advisory
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of the Chemical Branch, Volumes I-II. Feb 1946.
217p photos, tables, drawings, diags.
MI \$2.50 Ph \$15.00.
- OSRD 6541 PBL 20189 (1-1376)
McSweeney, E. E., and Lucks, C. F.
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Engineering Division Air Technical Service
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- OSRD 6542 PBL 20188 (1-1428)
Bearse, A. E., and Lucks, C. F.
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Engineering Division Air Technical Service
Command, Wright Field, Dayton, Ohio: Advisory
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Textile and Rubber Branch. Feb 1946.
71p photos, drawings. MI \$1.00 Ph \$5.00.
- OSRD 6544 PBL 19940 (1-1348)
Hollister, S. C., and Garcia, J.
Fatigue tests of ship welds: Final
report, Aug 1945. Jan 1946.
90p MI \$1.00 Ph \$6.00.
- OSRD 6545 PBL 31063 (2-893)
Pekeris, C. L.
Theory of propagation of explosive sound
in shallow water. Jan 1946.
195p tables, graphs. MI \$4.00 Ph \$13.00.
- OSRD 6547 PBL 16422 (1-1027)
Parke, Robert M., and Herzog, Alvin J.
Heat resisting metals for gas turbine
parts (N-102): Chromium-base alloys. Final
report, Nov 28, 1945. Jan 1946.
47p MI \$0.50 Ph \$4.00.
- OSRD 6549 PBL 15867 (1-1253)
Rieppel, P. J., and others
Development of improved electrode coat-
ings (00-35-2): Part I—Fundamentals of
weld-metal porosity. Final report, Jan 15,
1945 to Oct 31, 1945. Jan 1946.
112p charts, diags, photos, tables.
MI \$1.50 Ph \$8.00.
- OSRD 6550 PBL 15866 (1-1254)
Voldrich, C. B., and others
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ings (00-35-2): Part II—Development of
alternating-current welding electrodes for
high-strength structural use. Final report,
May 15, 1945 to Oct 31, 1945. Jan 1946.
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Allison, John L., and others
Project 13-121, electrical direction finder
evaluators. Final report. Oct 1945.
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MI \$1.00 Ph \$6.00.
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U. S. Office of Scientific Research and
Development
Optonic instruments for the study of
camouflage. Aug 1945.
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MI \$2.00 Ph \$5.00.
- OSRD 6557 PBA 51026 (4-1036)
Interchemical Corp. Research Laboratories,
New York
Camouflage finishes and related prob-
lems. Sep 1945.
306p tables, graphs. MI \$7.00 Ph \$21.00.
- OSRD 6563 PBL 16466 (1-1024)
Cross, Howard C., and Simmons, Ward F.
Final report on heat-resisting metals
for gas turbine parts (N-102). Jan 1946.
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MI \$2.50 Ph \$15.00.
- OSRD 6564 PBL 16465 (1-1109)
Edlund, D. L., and Oberle, T. L.
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parts (N-102): Experimental alloys for high
temperature service. Final report, Dec 26,
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MI \$1.00 Ph \$4.00.

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Lukens, Hiram S.
Flatware for army use (JMC-21): Final report Part II, from Jan 25, 1944 to Jan 26, 1945. Jan 1946.
65p MI \$1.00 Ph \$5.00.
- OSRD 6572 PBL 20190 (1-1433)
Reinberg, T. R., and Lucks, C. F.
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- OSRD 6587 See OSRD 4866.
- OSRD 6588 See OSRD 4866.
- OSRD 6589 See OSRD 4866.
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- OSRD 6592 PBL 18483 (1-1400)
Chapman, E. C., and Lorentz, R. E., Jr.
Development of armor welding electrodes (OD-36-2). Final report Part I—Ferritic electrodes for welding of rolled armor plate. Part II—Ferritic electrodes for welding of cast armor. Feb 1946.
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4018	6266	4451	5507	5246	382	5583	4615	5916	4311	6028	5241
4019	6114	4452	5459	5247	1211	5584	5423	5917	3820m	6141	257
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4023	4405	4607	3506	5279	4205	5588	824	5922	6051	6521	1911
4024	4263	4608	4522	5280	4205	5590	840	5923	6045	6522	3249
4025	3088	4609	3781	5281	4205	5591	847	5924	6046	6523	1357
4026	1591	4610	5254s	5282	4205	5592	855	5925	6047	6524	1356
4028	1320	4611	5522	5283	4205	5593	854	5926	6048	6525	1379
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4210	3436	4650	4521	5505	1978	5874	5245	5953	4604	6553	1961
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4217	3354	5209	3193	5545	1221	5880	4834	5959	4538	6559	4167
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6814	3065	9401	95	12149	412	14307	895-32	15843	3423	16441	437
6815	3064	9402	1579	12150	388a	14317	966-41	15844	5919	16443	970
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18366	3334	19517	3033	19813	1525	20223	4793	21855	3839	22321	4827
18367	1737	19518	3792	19814	1240	20224	4544	21856	3843	22322	4913
18368	1813	19519	4282	19815	1137	20225	4453	21857	3846	22323	4914
18374	3856	19520	1457	19816	822	20226	4553	21858	3846	22324	4915
18467	4192	19521	1858	19817	460	20227	4343	21859	3894	22325	4916
18468	1490	19522	1146	19819	4484	20266	354	21860	3895	22326	4982
18469	4490	19538	4398	19820	3106	20267	690	21861	3896	22327	4917
18470	3256	19539	6596	19821	4602	20268	1101	21862	3891	22328	5005
18471	1402	19540	3477	19822	4543	20269	225	21863	3892	22329	5020
18472	1828	19541	2053	19823	4647	20270	227	21864	3893	22330	5021
18473	1829	19542	4824	19824	4529	20271	754	21865	3917	22331	5048
18474	1641	19543	3175	19825	5118	20272	988	21866	3918	22332	5049
18475	1915	19544	4653	19826	4620	20273	957	21867	3944	22333	5104
18476	1799	19546	8713	19827	4956	20274	931	21868	3938	22334	5107
18477	946	19546	3016	19828	4955	20275	910	21869	3812	22335	5108
18478	756	19547	2076	19829	3885	20276	360	21870	3813	22336	5109
18479	1105	19548	4070	19830	3702	20277	679	21871	3814	22368	4280
18480	742	19549	3272	19831	3346	20278	3117	21872	3818	22369	4281
18481	408	19550	1673	19832	3827	20279	3118	21873	3716	22370	4315
18482	760	19551	1155	19833	1844	20280	3119	21874	3746	22371	4316
18483	6592	19552	1656	19834	2065	20281	3120	21875	3745	22372	4317
18484	4717	19553	5283	19835	4819	20282	3089	21876	3665	22373	4358
18485	4656	19554	3143	19834	6452	20283	3260	21877	3661	22374	4359
18486	5265	19555	5264	19935	6387	20284	1701	21878	3843	22375	4360
18485	5547	19556	5284	19936	6075	20285	1827	21879	3703	22376	4364
18484	5610	19557	4832	19937	6073	20286	3153	21880	3636	22377	4365
18486	1836	19558	4052	19938	5492	20287	3286	21881	3623	22378	4366
18486	1837	19566	3296	19940	6544	20288	5313	21882	5727	22379	4367
18487	1578	19567	3063	19944	6365	20289	5937	21883	6010	22380	4368
18488	1707	19568	3061	20165	675	20290	1588	21884	6009	22381	4420
18489	1231	19571	6331	20174	1215	20291	3316	21885	5717	22382	4422
18490	1385	19572	6205	20175	1428	20292	1698	21886	5716	22383	4121
18491	4123	19573	5332	20176	1669	20293	1738	21887	5723	22384	4423
18492	2016	19574	5014	20177	1735	20294	3031	21888	6008	22385	4429
18493	4026	19575	4840	20178	2007	20295	6383	21889	5714	22386	4454
18494	1414	19576	4348	20179	3032	20296	1496	21890	5713	22387	4455
18495	3683	19577	4188	20180	4397	20830	1592	21894	5725	22388	4463
18496	4024	19578	3554	20181	4766	20831	1729	21895	5712	22389	4464
18497	4134	19579	6332	20182	5636	20832	4270	21896	5728	22390	4465
18498	3154	19648	5196	20184	6071	20833	4245	21987	5693	22391	5110
18499	1192	19649	5484	20185	6072	20834	1672	21988	5519	22392	5133
18497	1154	19650	4093	20186	1241	20835	5566	21989	5518	22393	5134
18497	3568	19651	4621	20187	6596	20836	6301	21990	5724	22394	5136

PB No.	OSRD No.	PB No.	OSRD No.	PB No.	OSRD No.	PB No.	OSRD No.	PB No.	OSRD No.	PB No.	OSRD No.
22395	5135	22592	1695	22916	383	24882	3090	27294	3834	27553	5051
22396	4424	22593	1715	23201	122	24883	1946	27295	1513	27554	5314
22397	4337	22594	1753	23202	178	24884	1615	27296	2087	28519	4504
22465	3053	22595	1782	23203	117	24885	6333	27299	1638	28520	6100
22466	3141	22596	1853	23204	130	24886	5457	27301	1789	28521	6101
22467	3142	22597	1865	23205	164	24887	4762	27302	1340	28522	6016
22468	3164	22598	1942	23206	335	24888	4408A	27303	1372	28523	4502
22470	3542	22599	1953	23207	106	24889	4408	27304	1341	28524	6163
22471	3543	22600	1966	23208	968	24890	1522	27307	369	28525	6160
22472	3758	22601	2004	23215	1006	24891	1030	27308	683	28526	6161
22473	4402	22602	2064	23674	311	24892	1520	27309	5300	28527	6157
22475	4612	22603	3015	23675	415	24893	925	27311	568	28528	5143
22476	4584	22604	3017	23676	501	24895	875	27312	675	28529	6134
22477	5449	22605	3109	23677	10	24896	777	27313	70	28531	1087
22480	1178	22606	3115	23678	1079	24897	788	27331	1393	28532	61
22481	2089	22607	3116	23679	929	24898	590	27332	1325	28533	4736
22501	3407	22608	3125	23680	605	24899	171	27333	2039	28534	4738
22502	3417	22609	3126	23681	611	24900	144	27335	4760	28535	4739
22503	3418	22610	3127	23682	585	24901	6602	27336	5981	28536	4506
22504	3536	22611	3165	23683	577	24903	6054	27337	1934	28537	1786
22505	3538	22612	3181	23684	323	24904	3560	27338	5297	28538	1480
22506	3548	22613	3182	23685	345	24905	3569	27339	5996	28539	1481
22507	3585	22614	3183	23686	320	24906	3796	27340	5298	28540	3413
22508	3586	22615	3236	23687	316	24907	3900	27341	1474	28541	3025
22509	3587	22616	3263	23688	768	24908	5619	27342	3258	28542	3629
22510	3588	22617	3267	23689	758	24909	5623	27344	5295	28543	3722
22511	3625	22618	3268	23690	696	24910	5618	27345	1939	28540	4119
22512	3920	22619	3368	23691	595	24911	5622	27346	1384	28551	3787
22513	3921	22620	4064	23692	873	25382	1559	27347	1585	28552	4080
22514	3922	22621	4234	23693	547	25399	5942	27348	1326	28550	4501
22515	3966	22622	3257	23695	5680	25400	5940	27349	1969	28591	4047
22516	3967	22844	826	23696	5328	25402	4224	27350	1157	28592	4499
22517	3999	22845	901	23698	5173	25404	3853	27351	5299	28593	4114
22518	4000	22846	952	23699	4742	25405	4031	27352	4933	28594	4433
22519	4001	22847	3516	23702	4020	25406	4462	27353	5099	28595	4392
22520	4052	22848	3802	23704	3617	25407	3835	27354	5997	28596	4530
22521	4053	22849	5122	23705	5171	25408	3614	27355	6003	28597	1246
22522	4071	22850	5123	23706	4019	25412	1298	27358	3478	28598	1380
22523	4072	22851	6113	23709	4040	25413	1187	27361	5901	28599	1160
22524	4073	22852	6179	23712	3038	26993	3775	27395	6086	28600	3135
22525	4089	22853	6310	23713	3464	27133	1751	27396	6390	28601	1416
22526	4090	22854	6311	23724	3121	27143	3237	27397	6424	28602	1417
22527	4113	22860	1260	23725	1839	27144	3230	27398	6433	28603	4444
22528	4125	22861	1264	23726	4800	27145	1519	27399	5978	28604	4519
22529	4126	22862	1312	23727	1879	27146	1659	27400	6334	28605	3990
22530	4127	22863	1319	23728	5469	27147	1666	27401	6335	28606	4708
22531	4131	22864	1330	23759	222	27148	1801	27402	6336	28607	4711
22532	4135	22865	1359	23760	224	27149	3628	27403	6337	28608	4707
22533	4145	22866	1361	23761	1024	27150	1518	27404	6339	28609	4710
22534	4178	22867	3232	23762	959	27151	1214	27405	6340	28610	4714
22535	4179	22863	3293	23763	1005	27152	1532	27406	6367	28611	4027
22536	4180	22869	3331	23764	960	27158	1473	27407	6368	28613	1222
22537	4214	22870	3447	23765	932	27159	1460	27408	6369	28614	1251
22538	4215	22871	3932	23766	894	27160	1484	27409	6370	28615	1503
22539	4251	22872	4461	23769	615	27161	3446	27410	6371	28616	1866
22540	4252	22873	4561	23770	1113	27162	2085	27419	6284	28617	1864
22541	4267	22874	4570	23771	341	27163	1703	27420	5441	28618	3989
22542	4279	22875	4619	23772	243	27164	1590	27421	935	28620	4540
22543	1324	22888	2037	23773	877	27275	17	27421A	935	28621	4691
22544	1445	22889	3105	23774	730	27276	558	27421B	1300	28622	6356
22546	1524	22891	4269	23775	1162	27277	863	27422	20	28623	5523
22547	1528	22894	3398	23776	6597	27278	707	27423	4856	28624	5524
22549	1571	22895	4396	23777	6647	27279	763	27424	4162	28625	5524A
22550	1572	22896	3580	23778	4996	27280	445	27539	1309	28628	6236
22551	1805	22897	4396	23779	4266	27281	466	27540	2084	28629	6015
22552	1889	22898	3579	23780	488	27282	473	27541	3148	28630	614
22553	4417	22899	1657	23781	608	27283	947	27542	1348	28631	1425
22582	1216	22900	5323	23782	609	27284	999	27543	2035	28632	5404
22583	1299	22905	1817	23783	610	27285	793	27544	1997	28633	5402
22584	1492	22906	1919	23784	623	27286	818	27545	1776	28634	4500
22585	1499	22907	2038	23786	922	27287	1089	27546	1928	28635	4183
22586	1500	22908	1973	23794	1463	27288	943	27547	1930	28636	4185
22587	1501	22909	1974	23795	1464	27289	1014	27548	1385	28637	4184
22588	1565	22910	1977	24878	4238	27290	2	27549	4186	28638	4737
22589	1564	22911	1975	24879	4237	28291	5665	27550	1870	28639	5319
22590	1635	22912	3541	24880	8677	27292	5385	27551	4187	28640	5644
22591	1694	22913	3515	24881	5325	27293	6644	27552	4790	28641	1353

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28691	4505	31039	1184	32183	676	33200	3399	34117	2061	34804	461
28692	6024	31040	4891	32184	813	33201	3401	34118	1478	34805	355
28693	6020	31047	3441	32185	1030	33204	5499	34119	1203	38958	578
28694	6021	31048	3335	32186	2022	33205	1987	34121	6285	39572	6280
28695	4709	31049	233	32187	2023	33209	3176	34122	5386	39573	62
28696	4277	31060	1225	32188	3950	33210	3698	34123	4925	39574	31
28897	5403	31051	1230	32189	545	33211	4388	34124	3259	39575	5067
28698	5921	31052	1308	32190	523	33212	5346	34125	1250	39576	5294
28699	4446	31053	3084	32191	1035	33246	5444	34126	618	39577	6112
28700	8128	31054	3311	32192	1739	33247	4541	34127	622	39578	939
28701	6129	31055	3540	32193	1996	33248	3692	34128	3866	39579	1871
28702	3721	31056	4028	32194	3550	33249	4116	34129	626	39580	39
30739	141	31057	4136	32195	4200	33250	3134	34130	52	39700	370
30740	293	31058	4292	32196	1567	33251	3138	34131	1128	39707	449
30742	1678	31059	1467	32197	6463	33253	4690	34132	930	39708	749
30743	1755	31061	5408	32198	4814	33254	5649	34133	989	39709	724
30744	1577	31063	6545	32199	3902	33255	5137	34134	1112	39713	3799
30745	1413	31084	795	32200	1668	33256	5204	34135	42	39714	49
30746	3567	31085	907	32201	1872	33257	5481	34142	995	39715	1039
30747	1195	31086	115	32202	3011	33258	5659	34143	994	39716	1555
30748	1804	31087	898	32203	2050	33259	5660	34144	1543	39717	1929
30749	1891	31088	905	32204	1982	33260	6318	34748	5440	39718	1766
30750	2056	31089	915	32205	1690	33261	6317	34749	4883	40530	1818
30751	3324	31090	549	32206	3227	33262	6256	34750	148	40531	1819
30752	4564	31091	176	32207	3461	33263	6297	34751	2026	40532	1620
30753	4672	31092	160	32208	4904	33264	1179	34752	4513	40533	1821
30754	4781	31093	181	32209	5729	33265	1918	34753	2024	40534	3043
30755	4820	31094	158	32210	6428	33266	1403	34754	5639	40535	1788
30756	5949	31095	312	32211	5238	33340	3140	34755	5012	40536	380
30757	5950	31096	138	32212	6344	33341	5643	34756	4897	40537	1494
30758	5952	31097	333	32213	4539	33342	5359	34757	4869	40540	6031
30759	5946	31098	334	32214	4565	33343	3364	34758	4937	40541	6107
30760	5974	31099	412	32215	4157	33344	4169	34759	1713	40542	6103
30761	1510	31100	152	32216	4700	33345	3405	34760	5813	40543	5261
30762	1815	31101	285	32217	6122	33346	3404	34761	5777	40544	6102
30763	3411	31102	295	32218	4733	33347	4170	34762	5867	40545	6201
30764	3875	31103	997	32219	5815	33348	3945	34763	5849	40546	5674
30765	4881	31108	236	32220	5893	33349	3371	34764	5251	40547	4198
30766	4025	31109	845	32221	6132	33350	4587	34765	4905	40548	973
30767	5224	31110	684	32222	3018	33351	5377	34766	4487	40549	4060
30768	6574	31111	716	32223	3780	33352	1876	34767	3960	40550	7
30769	5397	31112	774	32225	5120	33355	6159	34768	4074	40551	4805
30772	1589	31113	811	32226	4988	33357	3136	34769	5853	40562	5682
30773	5334	31114	745	32227	4066	33359	3370	34770	5884	40563	5562
30774	560	31115	829	32228	4067	33360	4969	34771	5859	40564	2047
30775	612	31116	976	32564	891	33361	4318	34772	5888	40565	1173
30776	652	31117	1078	32599	55	33362	3948	34773	5775	40566	4701
30777	654	31118	1086	32603	353	33363	5360	34774	4033	40567	1526
30778	787	31119	705	32664	1505	33365	5362	34775	5445	40568	435
30779	785	31120	827	32697	4045	33366	5361	34776	2430	40569	570
30780	5374	31121	955	32715	114	33364	4588	34777	6185	40560	319
30781	1276	31122	1093	32716	79	33367	3208	34778	6187	40599	1040
30782	3166	31191	358	32717	637	33368	3947	34779	6135	40611	1538
30783	8098	31199	819	32718	64	33370	1595	34780	1770	40612	3608
30784	6025	31200	146	32719	1140	33371	1597	34781	3390	40613	3455
30785	1354	31201	147	32724	2017	33374	1598	34782	1374	40614	3454
30786	8006	31202	559	32792	213	33376	2028	34783	1396	40615	3453
30787	1450	31203	71	32798	214	33377	2030	34784	1637	40616	3452
30788	1449	31204	373	32794	288	33378	2020	34785	5868	40617	3451
30789	6039	31205	72	32795	289	33379	2021	34786	5870	40620	1458
30801	538	31206	919	32796	226	33380	223	34787	6147	40623	1761
31009	3215	31207	5711	32797	453	33382	1573	34788	6152	40625	3360
31010	3159	31208	755	32800	218	33384	1415	34789	6154	40626	495
31011	3372	31209	5352	32802	465	33985	454	34790	6169	40628	6635
31012	4615	31210	5333	32803	562	33987	1258	34791	6156	40629	1890
31014	4079	31211	4825	32804	678	33988	1363	34792	6159	40634	4202
31016	3511	31213	1337	32805	690	33992	5684	34793	1362	40635	169
31018	1862	31953	6648	32806	711	33993	5686	34794	1318	40636	4181
31020	5207	31954	2003	33187	1003	33994	5687	34795	1373	40637	166
31021	4333	31955	3047	33188	664	33995	5688	34796	3070	43032	1924
31024	5208	31956	5338	33189	19	33996	5690	34797	694	43033	2074
31025	3798	31957	5339	33190	14	34111	410	34798	820	43034	3173
31026	1705	31958	5732	33191	5382	34112	592	34799	836	43035	3632
31027	3601	32179	659	33192	5738	34113	721	34800	4679	43036	6393
31028	3872	32180	781	33194	5977	34114	1210	34801	6323	43037	3174
31037	1552	32181	1115	33195	6338	34115	344	34802	5979	43038	2076
31038	1387	32182	588	33197	3397	34116	349	34803	5626	43039	3172

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43040	3632	50814	888	50867	6568	58194	1704	58233	4296	63637	4345
43041	3801	50815	133	50868	3089	58195	1608	58234	6330	63638	6513
43042	4479	50816	132	51002	3137	58196	1609	58235	4327	63639	6469
43043	4480	50817	111	51003	4319	58197	5231	58236	6202	63640	803
43044	3724	50818	112	51004	3128	58198	5074	58238	6662	63643	4032
43045	4222	50821	98	51005	923	58199	5869	58239	6303	63645	5817
43046	3725	50824	4743	51006	1001	58200	5858	58240	411	63646	956
43048	436	50826	5731	51007	1097	58201	5856	60930	6251	63647	906
43049	5101	50827	5857	51008	4389	58202	5862	60931	6514	63648	631
43050	5393	50828	6299	51009	1301	58203	5843	60932	378	63651	6037
43051	6321	50829	5847	51010	821	58204	5872	60933	732	63652	6033
43052	5828	50833	6668	51026	6567	58205	5846	61009	1180	63653	6027
43056	3841	50835	3711	51027	6034	58206	5871	61375	6604	63654	6017
43057	139	50850	1307	51028	6036	58222	5288	61376	4867	63656	6019
43059	6108	50851	624	51029	6080	58223	1397	61406	1807	63656	6018
43061	2044	50852	328	51030	6022	58224	1785	63628	2082	63657	6029
43062	4297	50853	342	51032	4787	58225	3086	63629	1104	63658	6032
46187	6671	50854	927	51033	4740	58226	3422	63630	2081	66206	6099
50795	4552	50856	3036	58092	5685	58227	4204	63631	3329	67559	1411
50799	6005	50859	6637	58096	539	58228	4557	63632	3291	68910	1398,
50801	469	50860	8645	58098	314	58229	6187	63633	3753	appendix	
50811	834	50862	1303	58191	4139	58230	6221	63634	3869	68911	1568
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